



This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

- + *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
- + *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
- + *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
- + *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at <http://books.google.com/>

NYPL RESEARCH LIBRARIES



3 3433 06634167 2

VHWB

111indis

Mines

FOURTEENTH ANNUAL REPORT

OF THE

State Bureau of Labor Statistics.

c

COAL IN ILLINOIS

~~1895.~~ 1894/95

CONTAINING THE

TWELFTH ANNUAL REPORTS

OF THE

STATE INSPECTORS OF MINES.

GEORGE A. SCHILLING, *Secretary.*



SPRINGFIELD, ILL.
ED. F. HARTMAN, STATE PRINTER.
1906

THE NEW YORK
PUBLIC LIBRARY

89560

ASTOR, LENOX AND
TILDEN FOUNDATIONS.
1898.

BOARD OF COMMISSIONERS OF LABOR,

CHARLES G. STIVERS, Chicago, *President.*

JACOB C. LUTZ, Gardner.

W. E. R. KELL, Decatur.

**SECRETARY,
GEORGE A. SCHILLING.**



STATE BOARD OF EXAMINERS.

JOHN M. BROWNING, DuQuoin, *President*

LOUIS F. LUMAGHI, Collinsville.

WILLIAM McDONALD, Braidwood.

LOUIS A. GRAHAM, Jacksonville.

JOHN E. CRAINE, M. E., Murphysboro.

SECRETARY,

BETHUNE DISHON, Murphysboro.

STATE INSPECTORS OF MINES.

JAMES A. KEATING, First District, Streator.

CHARLES DUNCAN, Second District, Galva.

ROBERT PICKETT, Third District, Canton.

HENRY E. MALLOY, Fourth District, Danville.

JOHN KEAY, Fifth District, Springfield.

THOMAS S. CUMMING, Sixth District, Belleville.

JAMES B. BENNETT, Seventh District, Centralia.



TABLE OF CONTENTS.

INTRODUCTION, COAL IN ILLINOIS:

THE RECORD OF 1894-95.....	II
Number and Rank of Mines.....	IV
Output for the year.....	XIII
Number of Acres Worked Out.....	XXI
Number of Employés.....	XXIII
Days of Active Operation.....	XXIII
Average Value of Coal.....	XXVI
Prices Paid for Hand-Mining.....	XXVII
Screened and Uncreened Coal.....	XXVIII
Mining Machines.....	XXX
Wages at Machine Mines.....	XXXV
Payment of Wages.....	XXXVII
Powder in Hand Mines.....	XXXVIII
Powder in Machine Mines.....	XL
Casualties in Mines.....	XLII
Fatal Accidents.....	XLII
Non-Fatal Accidents.....	XLVIII
Physical Character of Mines.....	LIV
Methods of Working.....	LV
Ventilation of Mines.....	LVI
Statistical Summary.....	LVIII

REPORTS OF STATE INSPECTORS OF MINES:

FIRST INSPECTION DISTRICT—*Thomas S. Cumming, Inspector.*

Text of the Report.....	1
Fatal Casualties.....	10
Non-Fatal Casualties.....	11
Statistics of Grundy, Kankakee, LaSalle, Livingston and Will Counties.....	16
Recapitulation by Counties.....	22

SECOND INSPECTION DISTRICT—*Edward Fellows, Inspector.*

Text of the Report.....	25
Fatal Casualties.....	30
Non-Fatal Casualties.....	31
Statistics of Bureau, Hancock, Henry, Knox, Marshall, McDonough, Mercer, Rock Island, Schuyler, Stark and Warren Counties.....	34
Recapitulation by Counties.....	50

THIRD INSPECTION DISTRICT—*James A. Keating, Inspector.*

Text of the Report.....	53
Fatal Casualties.....	61
Non-Fatal Casualties.....	62
Statistics of Cass, Fulton, Logan, McLean, Menard, Peoria, Tazewell, Vermillion and Woodford Counties.....	
Recapitulation by Counties.....	

VIII

FOURTH INSPECTION DISTRICT—*John Keay, Inspector.*

Text of the Report.....	81
Fatal Casualties.....	86
Non-Fatal Casualties.....	87
Statistics of Bond, Calhoun, Effingham, Christian, Greene, Jasper, Jersey, Macon, Macoupin, Madison, Montgomery, Morgan, Pike, Richland, Sangamon, Scott and Shelby Counties.....	90
Recapitulation by Counties.....	100

FIFTH INSPECTION DISTRICT—*Hugh J. Hughes, Inspector.*

Text of the Report.....	103
Fatal Casualties.....	107
Non-Fatal Casualties.....	108
Statistics of Clinton, Gallatin, Hamilton, Jackson, Jefferson, Marion, Perry, Randolph, Saline, St. Clair, Washington and Williamson Counties	110
Recapitulation by Counties.....	126

APPENDIX.

Roster of Mine Managers.....	128
Roster of Fire Bosses.....	133
Roster of Hoisting Engineers.....	134

COAL IN ILLINOIS.

The fourteenth annual coal report of the statistics relating to the production of coal in the State of Illinois, and being for the year ending July 1, 1895, is herewith presented.

It is, necessarily, a continuation of the former reports on the same subject. The data upon which the calculations are based, the sources from which the information is obtained, as well as the method of arranging and tabulating the same are identical with those of previous reports, thus presenting not only the most complete and accurate history of the subject possible for the past year, but allowing comparisons to be made through a long series of years, by which means averages and percentages may be obtained and conclusions reached which could be arrived at in no other way.

Those parts of the report which deal with the physical characteristics of the mines, such as the depths of shafts, thickness of seams, systems of working, ventilation and equipments, are based upon observations made by the State Inspectors of Mines.

The information relating to the output of coal, its value, number of men employed, wages paid, etc., is furnished by the operators. Each mine reports the various facts which are used as a basis for the calculations to the State Inspector of Mines for the district in which the mine is located. The Inspector, in turn, verifies the information, where possible, tabulates it upon blank schedules furnished for that purpose, assembles the individual mines by the counties in which they are located and, finally, combines the whole into a recapitulation which embraces the entire district. From these schedules this report is compiled, and, as throughout the whole series of reports, the data upon which the calculations are based, the sources of information and the methods of computation have been uniform and practically identical, it may be assumed that the facts, as given for any particular year as well as the comparisons and deductions drawn from parallel tables extending through a long series of years, are accurate and trustworthy.

For detailed information in regard to the business of the past year, reference must be had to the various tables which follow, and to the reports of the Inspectors of Mines for their respective districts, but an epitomized statement, which, for convenience, is compared with that of the year next preceding, will be found in the following:

Comparative Statement.

Subject of Inquiry.	For the year ending July 1, 1894.	For the year ending July 1, 1895.	Increase, 1895 over 1894.	Decrease, 1895 from 1894.
Number of counties in which coal is mined	56	54	.....	2
Number of mines and openings of all kinds	886	847	.....	11
Number of shipping mines	319	319	.....	.....
Number of mines in local trade	517	555	.....	38
Number of tons of coal mined, all grades	17, 113, 576	17, 735, 864	622, 288	.....
Number of tons of lump coal (2,000 lbs.)	13, 865, 284	14, 045, 962	180, 678	.....
Number of tons of other grades of coal	3, 248, 292	3, 689, 902	441, 610	.....
Number of tons of nut coal included in other grades	479, 595	897, 942	418, 347	.....
Number of acres worked out (estimated)	2, 818, 01	2, 950, 69	132, 68	.....
Number of employes of all kinds	38, 477	38, 630	153	.....
Number of miners	31, 595	31, 515	.....	80
Number of other employes, including boys	6, 882	7, 115	233	.....
Number of boys over 14 years of age under ground	701	811	110	.....
Number of employes under ground	33, 046	34, 648	2, 602	.....
Number of employes above ground	6, 431	3, 982	.....	2, 449
Average No. of days active operation—shipping mines	183.1	182.2	.....	.9
Aggregate home value of total product	\$15, 282, 111	\$14, 239, 157	.....	\$1, 042, 954
Aggregate home value of lump coal	\$13, 998, 588	\$13, 090, 886	.....	\$907, 702
Aggregate value of other grades of coal	\$1, 283, 531	\$1, 148, 321	.....	\$135, 210
Average value of lump coal per ton at the mine	\$1.0696	\$0.982	.....	\$0.0776
Average value of other grades of coal at the mine	\$0.3951	\$0.349	.....	\$0.0461
Average price paid for hand mining—the year	\$0.671	\$0.573	.....	\$0.098
Average price paid for hand mining—summer	\$0.6485	\$0.516	.....	\$0.1325
Average price paid for hand mining—winter	\$0.6847	\$0.596	.....	\$0.087
Number of tons of lump coal mined by hand	7, 368, 850	7, 368, 006	499, 156	.....
Number of tons mined by hand—wages paid by the day	1, 280, 850	1, 100, 540	.....	180, 310
Number of tons mined by hand—paid by gross weight	2, 727, 331	2, 384, 998	207, 667	.....
Number of mining machines in use	296	322	26	.....
Number of tons of coal, all grades, mined by machines	3, 396, 139	3, 531, 456	135, 297	.....
Number of tons of lump coal mined by machines	2, 496, 793	2, 469, 804	.....	26, 989
Number of tons of other grades mined by machines	758, 781	824, 255	65, 454	.....
Number of kegs of powder used	318, 263	324, 888	6, 625	.....
Number of men killed	72	75	3	.....
Number of wives made widows	41	42	1	.....
Number of children left fatherless	114	111	.....	3
Number of men injured so as to lose time	521	605	84	.....
Number of tons of coal mined to each life lost	237, 689	236, 478	.....	1, 211
Number of tons of coal mined to each man injured	32, 847	29, 312	.....	3, 535
Number of employes to each life lost	534	515	.....	19
Number of employes to each man injured	74	64	.....	10
Number of new mines opened and old ones reopened	156	115	.....	46
Number of mines closed or abandoned	108	78	.....	30

There are two less coal producing counties this year than last. The two counties to drop out are Cumberland, in the fourth district, and Franklin in the fifth, but the amount of coal produced in these counties was insignificant, and was never great enough to be a factor in any of the calculations. The same may be said of several other counties which lie adjacent to the large coal producing counties, and in which mining is carried on in a small and intermittent way, so that the number of coal producing counties in the State is liable to fluctuations from year to year without in any way affecting the general results.

The total production of coal for the year was 17,735,864 tons, an excess of 622,288 tons over that of 1894, and the largest in the history of the State with the single exception of 1893, when the total output was 19,949,564 tons. The increase of tonnage for 1895 was mainly in the second and fourth districts, which show an increase, respectively, of 291,675 and 439,461 tons. The first district also gained slightly, recording 50,467 more tons than last year; while in the third and fifth districts there was a loss of 125,658 and 33,657 tons respectively.

If, however, the tonnage of 1895 is larger than that of 1894, the prices have not been so satisfactory; the aggregate value, at the mine, of the total product for the past year being \$14,239,157.00, as against \$15,282,111.00 for the previous year. Upon whom this loss fell is shown by the fact that, while the operators received an average of 7.76 cents less per ton for the coal, the miners were paid an average of 9.81 cents less per ton for mining it.

The total number of men employed in and about the mines was 38,630, the largest in the history of the State, but the average number of days of active operation was the lowest recorded.

The total number of mining machines in use in 1895 was 322, an increase of 26 over 1894. Their use is confined, as in former years, entirely to the thick seams in the third, fourth and fifth districts. The number of mines which use machines exclusively in the production of coal is 32, and these are confined to 7 counties. These few mines use 283 machines, or 88 per cent. of the entire number in use in the State.

The most deplorable feature of the year's record is the large number of accidents that has occurred. The mine inspectors have insisted on a more careful reporting of casualties, and their requirements have been generally observed and complied with, especially in localities where various forms of casualty insurance is carried by the miners. But this alone does not account for the increase in the number of accidents reported; nor has this increase, steady and constant through the series of years, merely kept pace with, it has out run, the increase in tonnage.

During the ten years next preceding this report there has been an average of 270,473 tons of coal produced for each life lost. In 1895, seventy-five men were killed, one for every 236,478 tons mined. One hundred and forty-four persons were *left helpless and dependent, widowed and fatherless by these accidents*—one for every 123,166 tons of coal produced.

Of the non-fatal accidents there were 605, entailing a total loss of 20,079 days to those who had reported for work by July 1, 1895, making an average of 36.4 days to each man injured. Two hundred and ninety-five of these men were married, with 1,004 persons depending on their wages for support.

Fuller information regarding the nature and causes of these accidents, and some suggestions looking toward the improvement of these conditions, may be found in the reports of the State Inspectors of Mines.

NUMBER AND RANK OF MINES.

The following table shows the rank of the mines throughout the State, the shipping mines being mainly large concerns with costly plants, while the local mines are, for the most part, small, and with an output comparatively insignificant.

Keeping this fact in mind, it will be seen that the fluctuation in the number of local mines, from year to year, is of comparative small importance, and, though the whole number of mines is greater by 11 than last year, the increase has been wholly in the number of local mines and the total output remains practically unchanged.

Taking the mines by districts, we find that there was a decrease in the number of shipping mines in the first and third districts, which was offset by an increase in the second, fourth and fifth.

TABLE I—*Shipping and local mines, by Districts, for 9 years.*

YEARS.	FIRST DISTRICT.		SECOND DISTRICT.		THIRD DISTRICT.		FOURTH DISTRICT.		FIFTH DISTRICT.		TOTALS.	
	Shipping.	Local.	Shipping.	Local.	Shipping.	Local.	Shipping.	Local.	Shipping.	Local.	Shipping.	Local.
1887.....	44	24	30	245	77	159	58	53	83	35	292	516
1888.....	37	33	32	235	81	156	57	51	106	45	313	520
1889.....	36	36	31	223	89	157	57	41	119	55	332	522
1890.....	37	42	32	222	93	180	55	82	110	83	327	609
1891.....	38	32	31	233	90	183	56	70	112	73	327	591
1892.....	37	33	30	210	85	171	57	52	101	63	310	529
1893.....	38	33	27	197	84	152	59	45	102	51	310	478
1894.....	39	33	32	209	84	167	66	64	98	44	319	517
1895.....	*33	49	34	212	79	183	67	67	106	44	*319	555
Averages.....	38	35	31	222	85	168	59	58	104	55	317	537
Increase.....	.....	25	4	.....	2	24	9	14	23	9	27	39
Decrease.....	11	.....	.....	33	.....	.....	.....	.....	.....	.....	.....	.....

* Includes one mine abandoned late in the year.

The foregoing table, by giving the net gain or loss in number of mines, illustrates only partially the history of the industry in the various portions of the State, while the following, by indicating the number of new mines opened and old ones abandoned in each district for a period of nine years, gives a more comprehensive view of the subject.

TABLE II—*Mines opened and abandoned—increase.*

YEAR	Whole number of mines.	FIRST DISTRICT.		SECOND DISTRICT.		THIRD DISTRICT.		FOURTH DISTRICT.		FIFTH DISTRICT.		TOTAL NUMBER.		Increase.	Decrease.
		Opened.	Abandoned.	Opened.	Abandoned.	Opened.	Abandoned.	Opened.	Abandoned.	Opened.	Abandoned.	Opened.	Abandoned.		
1887..	808	8	12	1	4	38	25	8	7	5	6	60	54	6	....
1888..	833	10	8	28	36	25	34	8	11	28	4	99	93	6	....
1889..	854	10	8	40	43	34	25	6	16	33	14	123	106	17	....
1890..	936	10	7	32	42	46	19	47	4	41	21	176	93	83	....
1891..	918	4	8	35	25	26	26	9	19	18	26	92	104	.....	12
1892..	889	11	10	24	48	13	30	10	27	3	23	61	138	.....	77
1893..	788	11	10	41	57	6	26	6	11	6	16	70	120	.....	50
1894..	836	15	14	58	41	50	35	29	3	4	15	156	108	48	....
1896..	874	15	6	46	41	28	15	12	8	16	8	115	78	37	....
Total..	.....	94	83	305	337	264	235	135	106	154	133	952	894	197	189
Incr..	66	11	.....	.....	.....	29	.....	29	.....	21	.....	58	.....	90	.....
De cr.	.....	.....	.....	.....	32	.....	.....	.....	.....	.....	.....	.....	.....	.....	32

The two following tables, in which the mines of the State are classified, according to their tonnage, will be of interest, both as showing the location and grouping of the different classes of mines, and indicating the correctness of the conclusions deduced from the foregoing tables. It will be seen that, dividing the mines into two classes—those producing less and those producing more than 50,000 tons, the fourth district has much the larger number of the more extensive plants, though standing third in the total number of mines, and the second district standing nearly at the top of the list as regards the number of mines. The first district, however, stands last in the number of mines with an output of more than 50,000 tons. These tables also show that the number of large mines is inconsiderable and that the small ones, and very uniform, if slow, grow through the year, reaching their climax in 1893 and falling in the following year. Doubles and general business conditions, it is

TABLE III—Classification of mines according to output of lump coal.

DISTRICTS.	NUMBER OF MINES PRODUCING—																	
	Less than 1,000 tons.			From 1,000 to 10,000 tons.			From 10,000 to 50,000 tons.			From 50,000 to 100,000 tons.			Over 100,000 tons.			Total number of mines.		
Years.....	1893	1894	1895	1893	1894	1895	1893	1894	1895	1893	1894	1895	1893	1894	1895	1893	1894	1895
First.....	12	11	16	23	24	30	15	17	16	10	11	11	11	9	7	71	72	80
Second.....	131	133	130	71	88	94	12	11	7	4	4	7	6	5	5	224	241	243
Third.....	96	103	113	74	89	100	52	44	35	11	12	10	3	3	4	236	251	263
Fourth.....	21	50	45	29	21	19	14	28	27	26	20	22	14	11	11	104	130	124
Fifth.....	25	18	21	40	32	39	53	69	66	29	19	17	6	4	3	153	142	146
The State...	285	315	325	237	254	282	146	169	151	80	66	67	40	32	30	788	836	855
Increase.....	...	30	10	...	17	28	...	23	...	11	...	1	1	...	...	...	*48	*19
Decrease.....	50	...	5	...	...	8	...	18	...	14	...	...	8	2	*51	...	...	...
Per cent. inc.	...	10.5	3.1	...	7.2	11.92	...	15.8	...	15.9	...	1.5	2.6	...	...	*6.09	*2.3	...
Per cent. dec.	14.9	...	...	2.1	...	5.3	...	10.63	...	17.5	...	...	20.	6.2	*6.8	...	...	...

* Net increase and net decrease in the total mines of each year compared with the year previous.

† 19 mines which failed to report tonnage are omitted; real total is 874.

TABLE IV—Classification according to output, lump coal, 13 years.

YEARS.	NUMBER OF MINES PRODUCING—					Total number of mines.	Increase.	Decrease.
	Less than 1,000 tons.	From 1,000 to 10,000 tons.	From 10,000 to 50,000 tons.	From 50,000 to 100,000 tons.	Over 100,000 tons.			
1883.....	209	223	133	39	25	639	.....	.....
1884.....	202	273	148	38	20	741	102	.....
1885.....	226	290	143	40	19	778	37	.....
1886.....	316	280	135	44	14	789	11	.....
1887.....	320	278	141	42	20	801	12	.....
1888.....	327	271	151	47	25	822	21	.....
1889.....	321	316	139	55	23	854	32	.....
1890.....	398	301	155	54	23	986	82	.....
1891.....	405	263	164	55	31	918	18	.....
1892.....	335	242	154	69	39	839	79	.....
1893.....	226	237	146	80	40	729	51	.....
1894.....	315	254	169	66	32	836	45	.....
1895.....	325	232	151	67	30	*865	19	.....
Increase 1895 over 1883.....	116	49	18	28	5	216	364	148
Per cent. of increase.....	55.02	21	15	71.7	20	33.08	.....	.....

* 19 mines which fail to report tonnage are omitted; real total is 874.

Using the same classification as in preceding tables, the following will show the proportion of total output produced by each class of mines. The tonnage here given is for the total amount of lump coal which is the standard, commercial grade of coal, and in tons of 2,000 pounds. It will be noticed that

those mines which produce less than 10,000 tons, though constituting nearly 80 per cent. of the whole number, yield only 7.36 per cent. of the total product, and this proportion has been very uniform throughout a period of five years.

TABLE V.—*Number and per cent. of mines in each class.*

DISTRICTS.	LUMP COAL. MINES PRODUCING—								Total number of mines and tons.	
	Over 100,000 tons		From 50,000 to 100,000 tons.		From 10,000 to 50,000 tons.		Less than 10,000 tons.			
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No	Tons.
First	7	994,885	11	866,178	16	839,249	46	92,286	80	2,294,068
Second.....	5	707,319	7	539,968	7	122,542	224	313,227	243	1,673,056
Third.....	4	691,778	10	780,085	35	733,980	218	387,724	262	2,543,517
Fourth.....	11	1,688,302	23	1,684,228	27	802,017	64	85,046	124	4,154,538
Fifth.....	8	393,608	17	1,196,038	66	1,636,962	60	154,185	146	3,320,789
The State.....:	30	4,470,787	67	4,906,444	151	3,684,750	607	1,082,518	*855	14,045,962
Percentages, 1895.....	3.5	31.63	7.8	34.93	17.7	25.89	71.0	7.36	100	100
Percentages, 1894.....	3.8	30.6	7.9	32.7	30.2	30	68.1	6.7	100	100
Percentages, 1893.....	5.1	37.3	10.2	34.5	18.5	22.8	66.2	5.4	100	100
Percentages, 1892.....	4.6	37.6	8.2	31.8	18.4	24.3	68.8	6.3	100	100
Percentages, 1891.....	3.4	33	6	29.6	17.9	29.1	72.8	8.3	100	100
Mines and averages, 1895	30	149,025	67	73,280	151	24,071	607	1,701	*855	16,428
Mines and averages, 1894	32	133,788	66	68,748	169	24,599	569	1,621	836	16,585
Mines and averages, 1893	40	150,287	80	69,443	146	25,300	522	1,667	788	20,498
Mines and averages, 1892	39	142,077	69	67,787	154	23,372	577	1,610	839	17,568
Mines and averages, 1891	31	137,855	55	69,745	164	23,015	688	1,564	918	14,118

* 19 mines, which failed to report tonnage, are omitted as follows: 1st District, 2; 2d District, 3; 4th District, 10; 5th District, 4.

Again dividing the mines into two classes, those producing more and those producing less than 50,000 tons, we find that the former class, comprising 11.35 per cent. of the whole number, produces 66.76 per cent. of the entire yield of coal—an average of 96,672 tons to each mine, while those mines in the latter class, constituting 88.65 per cent. of the whole number, produce only 33.23 per cent. of the whole, which very closely coincides with the percentages for the period of nine years as shown.

TABLE VI.—Classification of mines for 9 years according as output was more or less than 50,000 tons.

YEARS.	MINES PRODUCING OVER 50,000 TONS OF LUMP COAL.					MINES PRODUCING LESS THAN 50,000 TONS OF LUMP COAL.				
	No. of mines.	Total tons.	Average No. of tons per mine.	Per cent. of whole No. of mines.	Per cent. of total product.	No. of mines.	Total tons.	Average No. of tons per mine.	Per cent. of whole No. of mines.	Per cent. of total product.
1887	63	5,949,894	95,966	7.74	57.90	739	4,328,996	5,858	92.26	42.10
1888	72	7,188,507	99,840	8.76	60.64	750	4,666,681	6,222	91.24	39.26
1889	78	7,235,577	92,764	9.13	62.29	776	4,362,386	5,622	90.87	37.61
1890	81	8,011,777	98,911	8.65	63.39	855	4,626,587	5,411	91.35	36.61
1891	86	8,109,485	94,296	9.37	62.57	832	4,850,739	5,883	90.63	37.43
1892	108	10,218,279	94,614	12.87	69.37	731	4,512,684	6,173	87.13	30.63
1893	120	11,563,728	96,364	15.23	71.77	668	4,549,171	6,810	84.77	28.33
1894	98	8,785,908	89,652	11.72	63.37	738	5,079,376	6,888	88.28	36.63
1895	*97	9,377,181	96,672	11.35	66.76	*758	4,667,268	6,157	88.65	33.23
Average 9 years, 1887 to 1895	82	8,555,037	95,453	.....	.....	761	4,627,099	6,085	.....	.....
Percentage 9 years, 1887 to 1895 .....	.....	.....	.....	10.49	64.73	.....	.....	.....	89.52	35.27
Average 8 years, 1887 to 1894	88	8,382,894	95,125	.....	.....	786	4,622,078	6,073	.....	.....
Percentage 8 years, 1887 to 1894 .....	.....	.....	.....	10.38	64.46	.....	.....	.....	89.62	35.54
Average 7 years, 1887 to 1893	87	8,325,321	96,009	.....	.....	764	4,556,749	6,148	.....	.....
Percentage 7 years, 1887 to 1893 .....	.....	.....	.....	10.19	64.63	.....	.....	.....	89.81	35.37
Average 6 years, 1887 to 1892	81	7,785,587	95,921	.....	.....	781	4,558,012	5,840	.....	.....
Percentage 6 years, 1887 to 1892 .....	.....	.....	.....	9.42	63.07	.....	.....	.....	90.58	36.93

* 19 mines, which failed to report tonnage, are omitted throughout.

The three following tables give detailed information concerning shipping and local mines and their relative importance as factors in the production of coal.

Table VII deals with shipping mines, the whole number of which is 319, the same as last year; this number, however, includes one mine which, though active through the greater part of the year, was abandoned towards its close. This class comprises 36.5 per cent. of all the mines, as against 38.2 per cent. last year, and furnishes 93.5 per cent. of the total product as against 94.1 per cent. last year. The aggregate number of tons is 472,277 more than last year, the average number of tons per mine is 668 greater, while the average number of running days is 3 less.

Table No. VIII is a parallel table dealing with local mines. The whole number in this class is 555, or 38 more than last

year. This class comprises 63.5 per cent. of the whole number of mines as against 61.8 per cent. last year, and furnishes 6.5 per cent. of the total tonnage as against 5.9 last year. The total tonnage of this class of mines exceeds that of last year by 150,011 tons, the average per mine is practically the same, (12 tons less) and the average number of running days is 2 less.

Table IX is a condensation of the two preceding ones and a comparison of percentages and averages through a period of six years.

This illustrates the uniformity both in number and product of the more important mines throughout the State, as well as the constant character of the ratio between the two classes.

It will be noticed that the percentage of tons of lump coal in the shipping mines is slightly and uniformly below that of the total product, while in the local mines the reverse is true.

TABLE VII.—*Shipping Mines; output and relation to other mines.*

DISTRICTS.	SHIPPING MINES.							
	Number.	Total output, all grades—tons.	Total lump coal—tons.	Per cent. of whole number of mines	Per cent. of total tonnage	Per cent. of total lump, tons.	Average number of tons of lump coal per mine.	Average number of days worked.
First*	33	2,564,276	2,137,166	40.3	93.7	93.2	64,763	145
Second.....	34	1,731,587	1,416,544	13.8	86.8	84.7	41,663	161
Third.....	79	2,676,468	2,278,335	30.2	90.6	89.6	28,840	157
Fourth.....	67	5,555,219	4,096,993	50	99	96.6	61,149	186
Fifth†	106	4,062,350	3,085,191	70.7	91.3	91.3	29,953	152
The State.....	319	16,578,890	13,014,249	36.5	93.5	92.7	41,184	171

* Includes one mine abandoned during the year.

† Three mines made no report.

TABLE VIII.—*Local Mines; output and relation to all mines.*

DISTRICTS.	LOCAL MINES.							
	Number.	Total output, all grades—tons.	Total lump coal—tons.	Per cent. of whole number of mines.	Per cent. of total tonnage	Per cent. of total lump, tons.	Average number of tons of lump coal per mine.	Average number of days worked.
First*	49	171,435	156,877	58.9	6.3	6.8	3,398	152
Second.....	212	263,711	256,512	36.2	13.2	15.3	1,210	146
Third.....	183	276,302	265,182	69.8	9.4	10.4	1,449	165
Fourth.....	67	57,545	57,545	50	1	1.4	859	118
Fifth†	44	387,481	295,597	29.8	8.7	8.7	6,874	174
The State.....	555	1,156,974	1,031,713	68.5	6.5	7.3	1,893	155

* One mine made no report.

† One new mine made no report.

TABLE IX—*Shipping and local mines summarized for 6 years.*

YEARS.	SHIPPING MINES.					LOCAL MINES.				
	Number of mines.	Per cent. of whole number of mines.	Per cent. of total product—tons.	Per cent. of lump—tons.	Average number of lump tons per mine	Number.	Per cent. of whole number of mines.	Per cent. of total product—tons.	Per cent. of lump—tons.	Average number of lump tons per mine
1890	327	34.9	93.6	.....	34,176	609	65.1	6.4	.....	1,328
1891	327	35.6	95.5	93.0	37,860	591	64.4	4.5	8.0	1,187
1892	349	36.8	95.1	94.0	45,356	580	63.2	4.9	6.0	1,395
1893	310	39.8	96.5	96.0	49,776	478	60.7	3.5	4.0	1,427
1894	319	38.2	94.1	98.0	40,416	517	61.8	5.9	7.0	1,581
1895	*319	36.5	93.5	92.7	41,184	555	63.5	6.5	7.3	1,569

* Includes one mine abandoned during the year.

Tables X, XI and XII give more definite information regarding the more extensive plants and the individual mines.

Last year but three districts were represented in this class, while this year all appear. One mine has been added to this class in each of the first, second and third, while two have been added to and two dropped from the fourth district.

The total output of this class was 871,041 tons in excess of the year before, and the average output per mine is 260,510 tons as compared with 245,592 last year, an average gain of 14,918 tons per mine.

Of mines producing less than 200,000 and more than 100,000 tons, there are 45, a gain of 1 over 1894. Thirty of these mines were included in this class last year. As regards districts, they are distributed as follows: 12 in the First, 6 in the Second, 4 in the Third, 16 in the Fourth and 7 in the Fifth.

The total output of this class is 311,853 tons in excess of that of last year, while the average output is 141,043 tons as against 137,161 tons last year, an average gain of 3,882 tons per mine.

Combining these two lists, we have 54 mines in the State each of which shows an output of more than 100,000 tons of coal, and with an average output of 160,954 tons, which average is 10,781 tons in excess of that of last year.

These mines are located in 17 counties and while representing only 6 per cent. of the whole number of mines in the State, yet produce over 50 per cent. of the entire tonnage.

TABLE X—*Mines having a total output of over 200,000 tons—all grades.*

NAME OF COMPANY.	LOCATION.	COUNTY.	District.	Total output of tons of all grades.	Per cent. of lump coal.	Per cent. of other grades of coal.
Consolidated Coal Co. No. 6	Stannton	Macoupin	4	370,837	71.87	28.13
*Pawnee Coal Co.	Westville.....	Vermillion	3	340,021	90.09	9.91
Chicago, Virden Coal Co.	Virden	Macoupin	4	339,307	64.93	35.07
Devlin Coal Co. No. 1.....	Toluca	Marshall	4	262,390	76.47	23.53
St. Louis and Big Muddy Coal Co.	Cartersville	Williamson	5	251,535	58.83	41.16
Madison Coal Co. No. 5	Mt. Olive.....	Macoupin	4	235,677	77.60	22.40
Braceville Coal Co. No. 4.....	Braceville	Grundy.....	1	213,386	91.80	8.20
Madison Coal Co. No. 2.....	Glen Carbon ..	Madison.....	4	211,074	71.91	28.09
Kelleyville Coal Co. No. 2	Westville.....	Vermillion	3	210,364	78.77	21.23
Totals	8 towns—6 counties—9 mines..			2,344,591	75.43	24.57

* In list producing 100,000 tons in report of 1894.

TABLE XI—*Mines which have produced 100,000 and less than 200,000 tons of coal—all grades.*

NAME OF COMPANY.	Location.	County.	District.	Total output of tons of all grades.	Per cent of lump coal.	Per cent of other grades.
Consolidated Coal Co., No. 10.....	Mt. Olive.....	Macoupin	4	192,766	71.66	28.34
Consolidated Coal Co., No. 8.....	".....	".....	4	187,682	69.85	30.15
Wilmington Mining and Mfg. Co.....	Diamond	Grundy	1	186,133	90.90	9.10
Muddy Valley Mining and Mfg. Co.....	Muddy Valley.	Jackson	5	184,000	61.00	39.00
Pana Coal Co., Nos. 1 and 2.....	Pana	Christian	4	183,089	75.00	25.00
Star Coal Co., No. 2.....	Kangley	LaSalle	1	180,865	71.15	28.85
Spring Valley Coal Co., No. 2.....	Spring Valley ..	Bureau	2	180,373	86.04	13.96
Consolidated Coal Co., No. 7.....	Staunton	Macoupin	4	177,083	69.12	30.88
Penwell Coal Mining Co.....	Pana	Christian	4	176,502	62.20	47.80
Sandoval Coal Co.....	Sandoval	Marion	5	175,625	75.96	24.04
Taylorville Coal Co.....	Taylorville	Christian	4	173,000	80.35	19.65
Consolidated Coal Co., "Abbey," No. 3....	Collinsville.....	Madison	4	158,309	76.35	23.65
Sunday Creek Coal Co., No. 1.....	Coal City	Grundy	1	157,806	94.50	5.50
Spring Valley Coal Co., No. 3.....	Spring Valley ..	Bureau	2	157,725	84.23	15.77
Star Coal Co., No. 2.....	Carbon Hill	Grundy	1	156,861	88.47	11.53
Pittinger & Davis	Centralia	Marion	5	155,808	55.00	45.00
Coal Valley Mining Co.....	Cable	Mercer	2	153,005	74.54	25.46
Carterville Coal Co.....	Carterville	Williamson.....	5	151,535	58.04	41.96
Consolidated Coal Co., No. 4.....	Danville	Vermilion	3	150,405	80.42	19.58
Consolidated Coal Co.....	Missionfield ..	".....	3	148,413	90.83	9.17
Consolidated Coal Co., "Helntz Bluff".....	Collinsville.....	Madison	4	144,485	73.15	26.85
Big Muddy Coal and Iron Co., No. 5.....	Murphysboro....	Jackson	5	142,801	66.51	33.49
Springside Coal Mining Co.....	Pana	Christian	4	141,079	58.20	41.80
Chi. Wil. & Vermilion Coal Co., No. 1....	Streator	LaSalle	1	135,926	70.42	29.58
Alden Coal Co.....	Wanlock	Mercer	2	134,731	73.33	26.67
Chi. Wilmington & Vermilion Coal Co....	Streator	Livingston ..	1	134,572	80.00	20.00
Whitebreast Fuel Co., "B".....	Ladd	Bureau	2	137,869	81.78	18.22
Chi. Wilmington & Vermilion C. Co., "P"....	Braidwood	Grundy	1	125,944	85.71	14.29
McLean Coal Co., No. 1.....	Bloomington ..	McLean	3	124,597	88.25	11.75
Star Coal Co., No. 1.....	Carbon Hill	Grundy	1	124,373	85.62	14.38
Hillsboro Coal Co.....	Hillsboro	Montgomery ..	4	120,241	66.53	33.47
LaSalle Coal and Carbon Co., No. 1.....	LaSalle	LaSalle	1	117,096	84.75	15.25
Riverton Coal Co., No. 1.....	Riverton	Sangamon	4	116,564	72.85	27.15
Star Coal Co., No. 3.....	Carbon Hill	Grundy	1	115,440	86.11	13.89
Whitebreast Fuel Co.....	Dunfermline ..	Fulton	3	112,631	74.76	25.24
Girard Coal Co.....	Girard	Macoupin	4	108,968	83.23	16.77
Empire Coal Co.....	Gilchrist	Mercer	2	108,456	76.21	23.79
Consolidated Coal Co., "Gillespie".....	Gillespie	Macoupin	4	108,166	73.94	26.06
Madison Coal Co., No. 1.....	Glen Carbon ..	Madison	4	106,650	68.39	31.61
LaSalle Coal and Carbon Co., "LaSalle"....	LaSalle	LaSalle	1	103,555	84.76	15.24
LaSalle Coal and Carbon Co., "Union"....	".....	".....	1	103,496	84.75	15.25
Consolidated Coal Co.....	Breese	Clinton	5	102,243	74.73	25.27
Central Cooperative Coal Co.....	Cantrall	Sangamon	4	100,349	96.01	3.99
Decatur Coal Co., No. 1.....	Decatur	Macon	4	100,000	85.00	15.00
DuQuoin Union Coal Co., "Browning"....	DuQuoin	Perry	5	100,000	60.00	40.00
Totals	45.....	.....	..	6,346,937	76.02	23.98

TABLE XII—*Mines having a total output, all grades, of 100,000 tons and over.*

DISTRICTS.	YEAR 1895.		YEAR 1894.		YEAR 1893.		YEAR 1892.		YEAR 1891.		AVERAGES FOR 5 YEARS.	
	No. mines	Total tons.	No. mines	Total tons.	No. mines	Total tons.	No. mines	Total tons.	No. mines	Total tons.	Mines.	Tons.
First	13	1,855,458	11	1,397,480	12	1,985,967	15	2,305,796	12	1,909,008	13	1,870,725
Second	7	1,194,549	6	954,255	7	1,240,176	6	1,015,949	5	742,866	6	1,015,469
Third	6	1,046,481	5	781,531	6	849,791	4	690,694	5	673,558	5	808,395
Fourth	20	3,401,548	19	3,085,899	20	3,661,177	17	2,993,734	13	2,329,751	18	3,094,322
Fifth	8	1,363,547	9	1,329,969	14	2,011,663	10	1,323,579	8	1,096,667	10	1,366,664
The State.	54	8,691,538	50	7,508,634	59	9,793,743	53	8,338,699	43	6,650,889	53	8,136,693
Averages.	....	160,954	....	150,173	....	165,996	....	160,167	....	154,671	....	.....
Percentage of whole No. of mines & total product	6.2	49.00	6	43.9	7.5	49.1	6.2	46.6	4.7	42.57	6.1	46.34

THE OUTPUT FOR THE YEAR.

The total amount of lump coal produced in 1895, was 14,045,962 tons, a gain of 180,678 tons over 1894. This gain was wholly in the second and fourth districts, the others showing a loss. Table XIII is a comparative statement of the output of lump coal for the State and by districts for a period of five years. For this period, the State, as a whole, shows an increase of 1,085,738 tons in the output, and this gain is shared by all the districts except the First, which alone shows a steady decline.

TABLE XIII—*Total tonnage of lump coal, with gains and losses, for five years, by districts.*

DISTRICTS.	OUTPUT OF LUMP COAL BY DISTRICTS.					GAINS AND LOSSES.			
	1891—Tons.	1892—Tons.	1893—Tons.	1894—Tons.	1895—Tons.	1893-1894.		1894-1895.	
						Gain.	Loss.	Gain.	Loss.
First	3,701,662	2,965,067	2,913,144	2,367,296	2,294,063	.....	545,846	.....	.....
Second	1,215,893	1,461,234	1,708,909	1,449,356	1,673,066	.....	259,553	233,700	..
Third	2,336,500	2,711,574	2,560,299	2,569,268	2,543,517	.....	291,081	.....	.....
Fourth	3,592,293	4,690,921	4,508,382	3,877,110	4,154,538	.....	681,272	877,426	.
Fifth	3,173,959	3,502,177	4,122,165	3,602,252	3,380,788	.....	519,913	.....	.....
The State	12,960,221	14,730,963	16,112,899	13,865,234	14,045,962	.....	2,247,615	501,138	.....
Net gain	*321,860	1,770,739	1,381,936	.....	180,678	.....	.....	180,678	.....
Net loss .....	.....	.....	.....	2,247,615	.....	.....	2,247,615	.....	.....

* Gain over 1890.

To illustrate this subject more thoroughly, Table No. XIV gives the percentages of increase or decrease in output of lump coal for the State and by districts for a period of seven years. In order that the comparison may be more exhaustive and the variations be located more exactly, the average percentages for periods of seven, six, five and four years are also given.

TABLE XIV—Percentages of increase and decrease in tonnage of lump coal for seven years—1889-1895—by districts.

YEARS.	FIRST DISTRICT.		SECOND DISTRICT.		THIRD DISTRICT.		FOURTH DISTRICT.		FIFTH DISTRICT.		THE STATE.	
	Increase.	Decrease.	Increase.	Decrease.	Increase.	Decrease.	Increase.	Decrease.	Increase.	Decrease.	Increase.	Decrease.
1889.....		13.73		18.14		6.91	10.88		4.81			2.42
1890.....		9.86		8.5	15.88		17.43		17.2		8.97	
1891.....	17.29		21.27			1.26		5.29		2.08	2.55	
1892.....		9.75	18.53		16.05		15.82		10.34		13.51	
1893.....		1.78	16.95		5.48		10.2		17.7		9.88	
1894.....		18.74		15.19		10.18		14.0		12.61		18.95
1895.....		3.09	15.43		1.0		7.16			6.15	1.3	
Seven years.....		20.28	27.83		16.03		45.89		23.18		18.48	
Six years.....		17.74	31.74		17.20		35.82		36.58		16.96	
Five years.....	1.23		32.15		30.57		57.94		56.28		35.93	
Four years.....	3.03		12.99		23.70		43.31		32.78		24.26	

The total output of coal for the State is 17,735,864 tons, leaving 3,689,902 tons other than lump coal; much of this is of a merchantable quality, but it brings much less per ton in the market than lump. The following table will show the total product of the State by districts, together with the percentage of lump coal to the whole and for a period of five years. It will be seen that the percentage for the State is the smallest for the entire period, and that the Third District was the only one to gain in this respect, though the Fourth is very nearly the same, the decimal being in favor of last year. For the State, the percentage of nut and other grades is 20.75 as against 18.98 last year.

TABLE XV—*Total output and per cent. of lump coal.*

DISTRICTS.	Total product 1891. Tons.	Percentage of Lump coal.	Total product 1892. Tons.	Percentage of Lump coal.	Total product 1893. Tons.	Percentage of Lump coal.	Total product 1894. Tons.	Percentage of Lump coal.	Total product 1895. Tons.	Percentage of Lump coal.
First.....	3,062,915	87.63	3,458,066	85.74	3,394,686	85.81	2,695,344	88.16	2,785,711	88.86
Second.....	1,440,266	82.78	1,738,607	84.29	2,000,664	85.42	1,703,628	85.07	1,996,298	88.85
Third.....	2,794,004	83.54	3,280,951	88.15	3,367,439	84.19	3,077,918	88.47	2,952,280	86.15
Fourth.....	4,428,109	79.61	5,117,670	79.94	5,764,866	77.93	5,178,303	74.95	5,612,764	74.02
Fifth.....	3,915,404	81.06	4,282,051	81.60	5,371,915	76.73	4,473,488	80.52	4,439,681	76.15
The State....	15,680,686	82.76	17,862,276	81.47	19,949,564	80.77	17,113,576	81.02	17,785,664	79.25

Continuing and extending the investigation, the following table shows the total tonnage, all grades, and also the whole number of mines operated and men employed each year for a period of fourteen years. It will be seen that the industry has made great advancement in this time.

The increase in the number of mines has been 170, in the output, 6,718,795 tons, and in the number of men employed, 18,340.

Though, however, the number of men employed is greater, they have averaged less days' work in the year and for less remuneration.

In 1882 the miners received an average of over 80 cents per ton for mining coal, and produced an average of 543 tons to each man, while in 1895 they received an average of a little over 57 cents per ton and produced an average of only 445 tons per man, a decrease in earnings of over 58 per cent.

TABLE XVI—*Total number of men, mines and tons.*

YEARS.	Whole No. of mines.	Whole No. of men employed.	Total pro- duct in tons, 2,000 pounds.	Total tons of lump coal.	Total tons of other grades.
1882.....	764	30,290	11,017,069	9,115,653	1,901,506
1883.....	639	23,939	12,123,456	10,030,991	2,092,465
1884.....	741	25,575	12,308,075	10,101,065	2,107,070
1885.....	778	25,946	11,834,459	9,791,874	2,402,585
1886.....	787	25,846	11,175,241	9,246,435	1,928,806
1887.....	801	26,804	12,423,066	10,278,890	2,144,176
1888.....	822	29,410	14,328,181	11,855,188	2,472,993
1889.....	854	30,076	14,017,298	11,597,963	2,419,335
1890.....	936	28,574	15,274,727	12,638,364	2,636,363
1891.....	918	32,911	15,660,698	12,960,224	2,700,474
1892.....	839	33,632	17,062,276	14,730,963	3,131,313
1893.....	788	35,390	19,949,564	16,112,899	3,836,665
1894.....	836	38,477	17,113,576	13,865,284	3,248,292
1895.....	874	38,630	17,735,864	14,045,962	3,689,902

The following table, being a list of the counties which have produced over 200,000 tons of coal in the past year, will indicate and locate the activity of this industry in the various portions of the State. It will be noted that Macoupin county has again passed St. Clair, and that, while there are, as last year, five counties each producing more than 1,000,000 tons, Vermilion county has dropped out of this class and her place has been taken by Christian. This list contains 21 counties as against 20 last year, Marshall county having also been added.

TABLE XVII—*Counties which have produced more than 200,000 tons of coal, arranged in order of their rank, for the years 1894 and 1895.*

DISTRICTS.	YEAR 1894.			DISTRICTS.	YEAR 1895.		
	COUNTIES.	Rank.	Total product, tons, all grades.		COUNTIES.	Rank.	Total product, tons, all grades.
5	St. Clair.....	1	1,623,684	4	Macoupin.....	1	1,948,992
4	Macoupin.....	2	1,575,045	5	St. Clair.....	2	1,479,106
4	Sangamon.....	3	1,142,299	4	Sangamon.....	3	1,318,092
1	LaSalle.....	4	1,134,097	1	Grundy.....	4	1,261,838
1	Grundy.....	5	1,130,430	3	Vermilion.....	5	1,177,375
4	Christian.....	6	1,005,500	1	LaSalle.....	6	1,084,552
3	Vermilion.....	7	989,813	4	Madison.....	7	978,161
2	Madison.....	8	889,768	2	Bureau.....	8	834,541
2	Bureau.....	9	878,937	5	Jackson.....	9	739,661
5	Jackson.....	10	766,514	4	Christian.....	10	735,361
3	Peoria.....	11	611,792	5	Perry.....	11	587,444
3	Fulton.....	12	557,708	5	Marion.....	12	538,900
5	Perry.....	13	530,490	3	Fulton.....	13	468,792
5	Marion.....	14	478,757	2	Mercer.....	14	462,011
5	Williamson.....	15	437,157	5	Williamson.....	15	461,475
2	Mercer.....	16	374,008	3	Peoria.....	16	437,457
1	Livingston.....	17	342,127	2	Marshall.....	17	346,231
3	Menard.....	18	295,852	5	Clinton.....	18	284,487
4	Macon.....	19	227,830	3	Menard.....	19	277,738
5	Clinton.....	20	200,920	1	Livingston.....	20	267,133
				4	Macon.....	21	231,000
	Total.....		15,192,698		Total.....		15,920,397

In order that the comparisons may be complete, the following table gives a list of all the counties which have produced over 200,000 tons in any one year for the past five years, their average production per year for five years, and their rank as determined thereby.

TABLE XVIII.—*Rank of counties according to output, all grades five years.*

RANK.	COUNTIES	RANK OF COUNTIES FOR THE YEARS—						Rank for average	Average tons of
		1891.	1892.	1893.	1894.	1895.	1896.		
1	Livingston.....	14	13	14	17	20	15	489,271	
5	Williamson.....	20	17	16	15	15	16	428,564	
2	Mercer.....	16	16	17	16	14	17	369,199	
2	Marshall.....						17	368,424	
3	Menard.....	21	18	18	18	19	19	346,281	
6	Clinton.....			20	20	18	20	269,101	
4	Macon.....	19	19	19	19	21	21	246,884	
1	Will.....	17						234,672	
3	McLean.....	18	20	21			23	239,608	
	Total.....	21	20	21	20	21	23	15,815,750	

ERRATA.

In sixth line from top of this page, for five read six.

In seventh line, for Vermillion read Christian.

In eighth line, for Christian read Vermillion.

The following table gives the number of coal producing counties in each district through a series of five years, with the average yield per county, for the same length of time and the average annual tonnage for the districts for the full period. It will be noticed that the average yield per county has been greater in the Fourth District, with the single exception of 1892, when the First District took first place, holding second for the other years embraced in the table. The average for the districts, however, shows that in total production, the order is as follows: Fourth, Fifth, First, Third, Second:

TABLE XIX.—*Number and average tonnage of the Counties, by Districts and for five years.*

DISTRICTS	NUMBER OF COUNTIES BY DISTRICTS IN EACH YEAR.					AVERAGE TONNAGE OF COUNTIES FOR THE YEAR.					Average tonnage of districts for five years.
	1891.	1892.	1893.	1894.	1895.	1891.	1892.	1893.	1894.	1895.	
First.....	4	3	3	3	3	748,002	1,065,021	1,074,754	868,881	871,178	2,937,699
Second....	2	2	2	2	3	507,712	639,019	753,238	626,470	547,611	1,837,942
Third.....	5	5	5	4	4	472,683	556,014	575,175	613,790	590,441	2,567,178
Fourth....	5	5	5	5	5	831,574	956,469	1,094,089	968,096	1,042,321	4,892,478
Fifth.....	5	5	6	6	6	681,991	757,882	845,719	672,920	691,840	4,395,635
The State	21	20	21	20	21	663,746	798,794	864,339	759,636	738,114	15,815,750

In the following table will be found all the coal producing counties of the State, named and assembled by districts, together with the output of each in the different grades of coal for 1894 and 1895:

TABLE XX.—*Output by Counties and Districts for the years 1894 and 1895.*

DISTRICTS AND COUNTIES.	FOR THE YEAR 1894.			FOR THE YEAR 1895.		
	Total out-put, lump tons.	Total out-put, other grades.	Total out-put, all grades.	Total out-put, lump tons.	Total out-put, other grades.	Total out-put, all grades.
First District.....	2,367,298	317,946	2,685,244	2,294,063	441,648	2,735,711
Grundy.....	1,052,233	78,187	1,130,420	1,126,810	135,028	1,261,838
Kaukaee.....	50,883	7,000	57,883	54,658	25,835	80,513
LaSalle.....	968,242	165,854	1,134,097	881,773	202,779	1,084,552
Livingston.....	276,654	65,473	342,127	197,847	69,286	267,133
Will.....	19,285	1,432	20,717	32,975	5,700	38,675
Second District.....	1,449,356	254,267	1,703,623	1,673,056	322,242	1,995,298
Bureau.....	743,764	135,173	878,937	716,313	118,228	834,541
Hancock.....	10,290	25	10,315	10,186	88	10,274
Henry.....	105,453	6,187	111,640	127,484	8,483	136,967
Knox.....	50,581	949	51,530	55,502	2,828	58,330
Marshall.....	117,612	17,084	134,696	275,070	71,211	346,281
McDonough.....	50,223	3,144	53,367	49,709	3,673	53,382
Mercer.....	286,445	87,558	374,003	384,681	113,380	498,061
Rock Island.....	40,041	1,600	41,641	42,237	3,348	45,585
Schuyler.....	11,774	2,054	13,828	11,562	1,048	12,600
Stark.....	22,182	443	22,625	22,131	.....	22,131
Warren.....	10,991	50	11,041	14,191	.....	14,191
Third District.....	2,569,268	508,650	3,077,918	2,543,517	408,743	2,952,260
Cass.....	13,306	5,600	18,900	14,120	5,000	19,120
Fulton.....	444,896	112,807	557,703	379,438	89,354	468,792
Logan.....	154,025	32,276	186,300	163,975	18,000	181,975
McLean.....	126,068	42,241	167,309	137,095	27,045	164,140
Menard.....	236,873	59,979	296,852	235,199	42,539	277,738
Peoria.....	517,967	98,555	611,792	381,883	55,574	437,457
Tazewell.....	85,399	8,200	93,599	82,066	13,020	95,106
Vermilion.....	843,615	147,198	990,813	1,063,305	144,070	1,207,375
Woodford.....	150,150	6,515	156,665	116,416	15,141	131,557
Fourth District.....	3,877,110	1,296,193	5,173,303	4,154,538	1,458,236	5,612,764
Bond.....	54,091	25,500	79,591	66,797	26,718	93,515
Calhoun.....	8,478	.....	3,478	9,200	.....	9,200
Christian.....	671,278	334,222	1,005,500	496,233	239,126	735,361
Greene.....	15,400	200	15,600	11,345	.....	11,345
Jersey.....	2,328	.....	2,288	.....	.....	.....
Macon.....	190,388	37,432	227,820	190,000	41,000	231,000
Macoupin.....	1,173,392	401,653	1,575,045	1,406,372	542,630	1,948,992
Madison.....	682,523	207,248	889,771	721,561	265,660	987,161
Montgomery.....	123,742	55,296	179,038	147,452	50,390	197,842
Sangamon.....	913,700	229,599	1,143,299	1,033,323	284,169	1,317,492
Scott.....	15,525	500	16,025	17,280	450	17,730
Shelby.....	21,909	4,541	26,450	46,573	17,153	63,726
Cumberland, Effingham, Jasper, Morgan, Pike and Richland.....	5,440	.....	5,440	*7,800	.....	7,800

* Includes Jersey county.

Output by Counties and District.—Concluded.

DISTRICTS AND COUNTIES.	FOR THE YEAR 1894.			FOR THE YEAR 1895.		
	Total out-put, lump tons.	Total out-put, other grades.	Total out-put, all grades.	Total out-put, lump tons.	Total out-put, other grades.	Total out-put, all grades.
Fifth District.....	3,608,262	871,236	4,478,488	3,380,788	1,059,043	4,439,831
Clinton.....	150,159	50,761	200,920	216,655	67,882	284,487
Gallatin.....	153,116	2,235	155,351	11,590	8,740	20,380
Hamilton.....	*	.....	.....	4,645	.....	4,645
Jackson.....	556,540	199,974	756,514	538,241	201,420	739,661
Jefferson.....	*	.....	.....	27,080	800	27,880
Marion.....	254,670	124,087	478,757	395,869	143,081	538,900
Perry.....	394,702	135,788	530,490	393,260	194,184	587,444
Randolph.....	180,971	12,376	193,247	161,481	33,000	194,481
Saline.....	24,864	12,049	36,913	30,628	14,574	45,202
St. Clair.....	1,437,714	195,970	1,633,684	1,267,862	211,244	1,479,106
Washington.....	48,435	1,400	49,835	50,220	6,000	56,220
Williamson.....	300,461	186,686	487,157	238,257	178,218	461,475
Franklin, Hamilton and Jefferson.....	620	.....	620	†	.....	.....
State totals.....	13,865,284	3,248,292	17,113,576	14,045,962	3,689,902	17,735,864

* Included in miscellaneous counties in 1894.

† Hamilton and Jefferson counties reported separately, Franklin county not reported.

The consideration of this phase of the subject, product and tonnage, is completed by the following tables which are, practically, summaries of the information contained in Tables XIII to XX, inclusive:

TABLE XXI—Number of mines, men, and tons in each District and the State, for each of the thirteen years. All grades of product.

YEARS.	FIRST DISTRICT.			SECOND DISTRICT.			THIRD DISTRICT.		
	No. of mines.	No. of employes.	No. of tons of coal. All grades.	No. of mines.	No. of employes.	No. of tons of coal.	No. of mines.	No. of employes.	No. of tons of coal.
1883.....	93	7,566	3,015,544	229	3,211	1,004,977	92	4,070	2,086,222
1884.....	84	8,013	3,030,407	264	3,616	890,273	171	5,018	2,000,000
1885.....	74	7,468	3,044,943	236	3,391	873,911	209	5,213	2,000,000
1886.....	69	7,613	2,812,100	262	3,599	851,728	223	4,870	2,000,000
1887.....	68	7,915	3,247,302	275	4,068	1,292,026	236	4,000	2,000,000
1888.....	70	8,633	3,478,196	287	4,914	1,562,946	237	4,000	2,000,000
1889.....	72	9,018	3,038,306	264	4,498	1,514,773	246	4,000	2,000,000
1890.....	79	8,258	2,783,700	254	4,099	1,211,742	273	4,000	2,000,000
1891.....	70	9,128	3,082,915	264	5,089	1,440,366	273	4,000	2,000,000
1892.....	70	9,572	3,438,066	240	4,865	1,733,608	256	4,000	2,000,000
1893.....	71	8,381	3,394,686	224	5,794	2,000,664	236	4,000	2,000,000
1894.....	72	10,380	2,685,244	241	6,714	1,708,628	251	4,000	2,000,000
1895.....	82	9,644	2,735,711	246	7,184	1,995,298	262	4,000	2,000,000

Table XXI—Concluded.

YEARS.	FOURTH DISTRICT.			FIFTH DISTRICT.			THE STATE.		
	No. of mines.	No. of employes.	No. of tons of coal.	No. of mines.	No. of employes.	No. of tons of coal.	No. of mines.	No. of employes.	No. of tons of coal.
1883.....	95	4,417	3,660,086	130	4,695	2,406,227	639	23,939	12,123,456
1884.....	104	3,781	3,389,136	118	4,147	2,572,362	741	25,575	12,298,075
1885.....	104	4,960	3,161,808	126	4,429	2,564,653	778	25,946	11,834,469
1886.....	109	5,197	3,323,424	136	4,567	2,352,794	787	25,846	11,175,241
1887.....	111	4,934	3,104,530	118	4,964	2,626,708	801	26,804	12,423,066
1888.....	108	5,086	3,449,997	151	5,537	3,187,738	822	29,410	14,328,181
1889.....	98	5,679	2,825,020	174	5,764	3,341,148	854	30,076	14,017,298
1890.....	137	5,685	4,491,718	193	5,361	3,915,869	936	28,574	15,274,727
1891.....	126	5,881	4,428,109	185	6,395	3,915,404	918	32,951	15,660,626
1892.....	109	6,542	5,117,600	164	6,200	4,292,051	839	33,682	17,662,276
1893.....	104	7,021	5,784,866	153	6,780	5,371,915	788	35,390	19,949,564
1894.....	130	7,750	5,173,303	142	6,621	4,473,488	836	38,477	17,113,576
1895.....	134	8,005	5,612,764	150	7,190	4,339,831	874	38,630	17,735,564

TABLE XXII.—Gains and losses by Districts and years in lump coal, for each of thirteen years.

YEARS.	FIRST DISTRICT.		SECOND DISTRICT.		THIRD DISTRICT.		FOURTH DISTRICT.		FIFTH DISTRICT.		THE STATE.	
	Increase, tons.	Decrease, tons.	Increase, tons.	Decrease, tons.	Increase, tons.	Decrease, tons.	Increase, tons.	Decrease, tons.	Increase, tons.	Decrease, tons.	Increase, tons.	Decrease, tons.
1883.....	45,460	120,996	.....	.....	335,088	.....	953,124	.....	448,410	915,338	.....	.....
1884.....	12,298	.....	103,181	247,773	.....	.....	224,188	.....	137,308	70,013	.....	.....
1885.....	12,027	.....	5,264	.....	121,476	.....	188,191	.....	6,327	.....	309,131	.....
1886.....	192,655	.....	18,354	.....	292,960	.....	133,821	.....	175,291	.....	545,439	.....
1887.....	390,087	.....	364,304	.....	262,950	.....	181,522	.....	226,636	1,032,455	.....	.....
1888.....	190,965	.....	224,160	.....	410,726	.....	296,249	.....	464,198	1,576,298	.....	.....
1889.....	347,341	.....	305,339	.....	141,772	.....	310,395	.....	126,932	.....	257,226	.....
1890.....	227,127	.....	85,248	.....	325,621	.....	551,629	.....	476,536	.....	1,040,401	.....
1891.....	898,326	.....	213,283	.....	39,470	.....	181,231	.....	66,048	321,860	.....	.....
1892.....	263,415	.....	245,341	.....	375,074	.....	558,688	.....	328,221	1,770,739	.....	.....
1893.....	51,923	247,685	.....	.....	149,377	.....	417,461	.....	619,988	1,371,936	.....	.....
1894.....	545,846	.....	259,553	.....	291,031	.....	631,272	.....	519,913	.....	2347615	.....
1895.....	73,235	223,700	.....	.....	25,751	.....	277,428	.....	221,464	180,678	.....	.....
Inc 1893	372,612	.....	998,383	.....	1,510,931	.....	2,433,138	.....	1,682,832	.....	6,987,876	.....
Inc & Dec 1894	173,234	738,830	.....	.....	1,219,900	.....	1,901,868	.....	1,162,920	.....	4,740,260	.....
Inc & Dec 1895	246,469	962,530	.....	.....	1,194,149	.....	2,079,291	.....	941,476	.....	4,920,930	.....

THE NUMBER OF ACRES WORKED OUT.

The total number of acres worked out in the production of coal in 1895, was 2,950.69. Perhaps a better appreciation of both the area and quantity of coal produced may be obtained by considering that this means that, during the past year, the entire product equals a solid mass of coal of a uniform thickness of a little more than six feet and covering an area of 4½ square miles.

Information concerning the acreage of the various counties and districts will be found in the following table which compares these items for the last four years, and giving, for the year 1895, parallel information concerning the number of men and mines:

TABLE XXIII.—*Number of mines, men, total tons of coal produced, and number of acres worked out, for the year 1895, with the number of tons and acres worked out for the years 1892, 1893 and 1894.*

DISTRICTS AND COUNTIES.	FOR THE YEAR 1892.		FOR THE YEAR 1893.		FOR THE YEAR 1894.		FOR THE YEAR 1895.			
	Total tons of coal produced.	Estimated number of acres worked out.	Total tons of coal produced.	Estimated number of acres worked out.	Total tons of coal produced.	Estimated number of acres worked out.	Number of mines.	Number of men employed.	Total tons of coal produced.	Estimated number of acres worked out.
The State.....	17,861,974	3,004.39	19,942,004	3,109.07	17,113,576	2,818.01	874	38,630	17,735,864	2,950.69
FIRST DISTRICT..	3,458,066	737.72	3,394,686	676.27	2,685,244	561	82	9,644	2,735,711	555
Grundy.....	1,175,084	299	1,186,919	252.21	1,130,430	260.5	29	4,300	1,261,838	306.5
Kankakee....	92,158	23.20	88,700	23.9	57,883	16.8	3	436	83,513	15.7
LaSalle.....	1,514,311	289.30	1,494,826	278.4	1,134,097	212.4	31	3,695	1,084,552	183.7
Livingston...	532,667	98.30	542,516	99.8	342,127	67	16	947	267,133	40.4
Will.....	113,846	29.02	81,725	21.56	30,717	4.3	3	266	38,675	8.7
SECOND DISTRICT..	1,733,608	394.4	2,000,664	470.1	1,703,622	387.35	246	7,184	1,995,298	433.33
Bureau.....	943,496	190	1,143,270	244.5	878,937	169.3	21	3,265	834,541	160.8
Hancock....	5,380	2.8	5,090	1.9	10,315	5.6	6	55	10,274	4.97
Henry.....	156,736	44.9	156,261	50.4	111,040	31.25	32	590	135,967	380.15
Knox.....	43,137	13.6	49,808	17	51,530	16.15	39	415	58,530	17.24
Marshall....	78,576	25.5	92,144	27.8	134,696	27.1	16	959	316,281	58.65
McDonough..	91,137	34.2	102,926	37.1	53,367	22.9	41	428	53,387	22
Mercer.....	325,542	57.8	303,306	64.7	374,008	85.35	16	968	462,011	107
Rock Island.	26,109	10.4	34,808	10.1	41,641	13.75	16	211	45,585	1
Schuyler....	16,792	3.1	18,735	4	13,828	3.54	11	69	12,600	
Stark.....	22,349	6.5	23,070	6.7	22,635	6.39	24	146	22,131	
Warren.....	11,364	5.6	11,876	5.9	11,041	6.02	24	108	14,191	

Number of mines, men, tons, acres, etc.—Concluded.

DISTRICTS AND COUNTIES.	FOR THE YEAR 1892.		FOR THE YEAR 1893.		FOR THE YEAR 1894.		FOR THE YEAR 1895.			
	Total tons of coal produced.	Estimated number of acres worked out.	Total tons of coal produced.	Estimated number of acres worked out.	Total tons of coal produced.	Estimated number of acres worked out.	Number of mines.	Number of men employed.	Total tons of coal produced.	Estimated number of acres worked out.
THIRD DISTRICT..	3,260,961	578.86	3,397,433	640.92	3,077,918	591.44	263	6,607	2,952,260	571.49
Cass	15,330	4.11	23,150	5.68	18,900	3.27	3	33	19,120	3.49
Fulton	666,473	122.42	772,497	159.09	567,708	115.73	89	1,320	468,792	100.86
Logan	157,356	30.7	189,319	37.3	186,300	35.32	3	179	181,975	41.93
McLean	222,372	43.14	304,827	39.5	167,294	18.06	4	403	164,140	18.59
Menard	285,398	42.01	281,635	46.87	296,852	47.46	10	539	277,738	49.54
Peoria	632,939	126.74	620,149	138.43	611,792	140.17	79	1,309	437,457	100.22
Tazewell	130,156	23.81	128,967	25.29	93,599	24.13	11	259	94,106	22.8
Vermilion	972,589	143.43	996,768	144.66	989,813	161.45	61	2,134	1,177,375	198.5
Woodford	158,041	42.5	180,131	43.2	156,668	45.86	2	511	131,557	35.16
FOURTH DISTRICT..	5,117,298	750.76	5,784,346	797.5	5,173,303	727.1	134	8,005	5,612,764	728.12
Bond	121,819	21	78,600	11.13	79,591	10	1	113	93,515	10.05
Calhoun	4,637	1.4	4,584	1.5	3,487	1.5	1	33	9,200	4
Christian	767,354	94.6	839,650	101.5	1,005,500	106	7	1,253	735,961	102.9
Greene	19,870	6.81	10,995	3.05	18,600	6.9	14	82	11,345	4.56
Jersey	3,378	1.2	5,904	1.6	2,298	8	...	...	...	...
Macon	227,020	32.92	280,233	10	327,820	33.5	3	429	231,000	39
Macoupin	1,823,126	277.45	1,988,069	298.08	1,575,045	230.5	19	2,051	1,948,992	208.56
Madison	873,770	127.96	951,894	143.44	889,768	114.9	23	1,255	978,161	116.06
Montgomery	147,870	21	175,712	20.70	178,040	23	4	412	197,842	30
Morgan	4,266	1.5	2,142	1.35	...	...	...	...	...	...
Sangamon	1,091,014	151.6	1,410,346	192.87	1,142,299	182	25	2,052	1,318,092	186.7
Scott	17,506	6.77	22,757	6.93	19,025	6.2	8	76	17,730	7.05
Shelby	15,665	6.35	13,460	4.81	26,450	9.8	14	308	63,726	13.24
Cumberland, Jasper, Effingham, Pike, Rich- land and Morgan .....	...	...	...	...	5,440	2	15	46	7,800	6
FIFTH DISTRICT..	4,292,051	542.65	5,371,915	523.68	4,473,488	551.12	150	7,190	4,439,831	657.75
Clinton	191,873	37	255,095	34.3	200,920	3.1	3	401	284,487	40.5
Gallatin	14,502	3.9	17,457	2.15	155,351	4.6	5	92	20,330	4.25
Hamilton .....	...	...	...	...	...	...	2	10	4,645	...
Jackson	869,514	117.71	926,242	80.08	766,514	94.9	14	1,175	739,661	86.53
Jefferson .....	...	...	...	...	...	...	2	41	27,880	5
Marion	376,519	38.1	480,529	48.25	478,757	6.15	6	710	538,900	88.5
Perry	461,068	52.29	560,151	82.81	530,490	61	22	1,312	587,444	92.22
Randolph	168,979	21.7	171,055	21.44	193,247	35.3	15	466	194,381	31.35
Saline	61,602	8.79	36,436	5.14	36,913	5.6	6	132	45,202	8.75
St. Clair	1,759,822	218.18	2,133,970	215.87	1,623,634	230.6	61	2,050	1,479,106	232.5
Washington	62,966	6.9	72,300	5.14	49,835	2.8	3	111	56,230	9
Williamson	322,486	36.23	418,426	28.56	437,157	51.5	11	690	461,475	59.25
Franklin, Hamilton, and Jeffer- son	2,720	.8	454	.14	620	.22	...	...	...	...

THE NUMBER OF EMPLOYES.

The two following tables give detailed information concerning the number of employes in and about the mines for a period of 13 years:

TABLE XXIV—*Total number of employes in and about the mines, by Districts, for thirteen years.*

YEARS.	TOTAL NUMBER OF EMPLOYES BY YEARS AND DISTRICTS.					
	First district.	Second district.	Third district.	Fourth district.	Fifth district.	The State.
1883.....	7,566	3,211	4,070	4,417	4,675	23,939
1884.....	8,013	3,616	5,018	4,781	4,147	25,575
1885.....	7,463	3,391	5,213	4,950	4,439	25,446
1886.....	7,613	3,599	4,870	5,197	4,567	25,846
1887.....	7,815	4,088	4,903	4,934	4,984	26,804
1888.....	8,623	4,914	5,250	5,086	5,537	29,410
1889.....	9,014	4,498	5,117	5,679	5,764	30,076
1890.....	8,258	4,099	5,171	5,685	5,361	28,574
1891.....	9,138	5,089	6,458	5,881	6,393	32,951
1892.....	9,572	4,866	6,453	6,542	6,200	33,622
1893.....	8,581	5,794	6,964	7,021	6,780	35,360
1894.....	10,280	6,714	7,112	7,750	6,621	38,477
1895.....	9,644	7,184	6,607	8,005	7,190	38,630
Net increase.....	2,078	3,973	2,537	3,588	2,515	14,691
Per cent. increase.....	27.46	123.73	62.33	81.23	53.80	61.37

TABLE XXV—*Average and highest number of men employed and where employed.*

DISTRICTS.	Number of mines.	MEN EMPLOYED.				WHERE EMPLOYED.		Totals.
		Average number.	Highest number.	Number of others.	Number of boys.	Under ground.	On the surface	
First.....	82	6,817	7,907	1,737	197	9,080	564	9,644
Second.....	246	4,606	5,940	1,244	73	6,667	517	7,184
Third.....	262	3,561	5,302	1,405	165	5,707	900	6,607
Fourth.....	134	4,481	6,525	1,480	205	7,089	966	8,055
Fifth.....	150	5,888	5,941	1,249	171	6,155	1,085	7,240
The State.....	874	24,847	31,515	7,115	*611	34,648	3,968	38,616

* The number of boys is included in the number of other employes.

DAYS OF ACTIVE OPERATION.

In arriving at the average number of days during which mines are in active operation, all the small and new mines excluded from the calculations, and the estimates are based on information received from each mine, and from all mines of sufficient importance to make them valuable as factors in arriving at the correct result. These calculations

were based on the running time of 295 mines, representing 91.9 per cent. of the total tons and 81.2 per cent. of total number of employes, while this year 278 mines are considered, representing 88.2 per cent. of the total tons and 80.7 per cent. of the number of employes and it is found that the average running time is slightly less than last year. Table XXVI shows the average running time by Districts and for four years of shipping mines producing over 1,000 tons, and working more than 100 days.

TABLE XXVI—Shipping mines producing 1,000 tons or more and working 100 days or more, with average number of days and average number of total tons produced by Districts for four years.

DISTRICTS.	YEAR 1895.			YEAR 1894.			YEAR 1893.			YEAR 1892.		
	No. of mines.	Average No. of days.	Average No. of tons, all grades.	No. of mines.	Average No. of days.	Average No. of tons, all grades.	No. of mines.	Average No. of days.	Average No. of tons, all grades.	No. of mines.	Average No. of days.	Average No. of tons, all grades.
First	26	159.4	90,073	35	161.5	69,019	38	230	86,860	35	218.3	81,026
Second	22	176.1	58,393	26	171	51,794	26	232	65,214	29	214.8	43,784
Third	66	173	33,846	81	182.9	33,785	80	215	39,316	84	203.8	29,241
Fourth	64	188.5	85,869	63	194.7	81,195	56	251	102,027	55	239.9	72,771
Fifth	94	192.6	42,028	90	186.9	45,762	101	233	52,366	96	221.8	35,204
The State	278	182.2	56,320	295	183.1	53,318	301	229.6	63,818	299	219.5	46,630

Table No. XXVII includes all mines, both shipping and local, which produce more than 1,000 tons and work more than 100 days; the average number of running days, while slightly larger than in the former table, is sufficiently near the same to demonstrate its accuracy.

TABLE XXVII—All mines producing 1,000 tons or more, and working 100 days or more, with average number of days and average number of total tons produced, for four years—by Districts.

DISTRICTS.	YEAR 1895.			YEAR 1894.			YEAR 1893.			YEAR 1892.		
	No. of mines.	Average No. of days.	Average No. of tons, all grades.	No. of mines.	Average No. of days.	Average No. of tons, all grades.	No. of mines.	Average No. of days.	Average No. of tons, all grades.	No. of mines.	Average No. of days.	Average No. of tons, all grades.
First	59	184.1	42,469	58	177.7	46,067	60	213	56,459	59	207.5	57,777
Second	109	189.5	16,836	107	187	14,371	93	225	30,794	91	208	17,132
Third	142	184.5	17,279	145	187.8	20,264	136	213	24,506	144	239.9	23,152
Fourth	78	185.9	70,924	80	191	64,404	80	249	72,132	81	240	62,592
Fifth	118	195.9	36,459	119	195.6	36,751	128	223	41,843	120	227.7	35,477
The State ..	506	188.5	32,868	507	188.9	32,708	497	225.5	89,801	495	217.7	35,523

For convenience of reference, the information contained in the two foregoing tables is presented in the following in a condensed form:

TABLE XXVIII—A condensed table of all the mines included in the foregoing statements, for five years, with the average tonnage.

YEARS.	SHIPPING MINES.			MINES IN LOCAL TRADE.			BOTH CLASSES OF MINES.		
	No. of mines.	Average No. of days.	Average No. of tons, all grades.	No. of mines.	Average No. of days.	Average No. of tons, all grades.	No. of mines.	Average No. of days.	Average No. of tons, all grades.
1891.....	311	215.6	47,593	193	216.1	2,829	504	215.8	30,806
1892.....	299	219.5	46,690	196	215.2	3,142	495	217.7	36,333
1893.....	301	223.6	63,515	196	219.5	2,681	497	225.5	40,237
1894.....	295	183	53,515	212	196.9	4,018	507	188.9	33,708
1895.....	278	182.2	56,320	228	196.1	4,261	506	188.5	32,863

The consideration of the activity of the mines is concluded with the following table which gives, by districts, the number of shipping mines, with their percentages of product and employes and average number of running days for four years:

TABLE XXIX—Shipping mines of above class; their proportion of all coal produced and all men employed; their average days operation—four years.

DISTRICTS.	FOR THE YEAR 1895.				FOR THE YEAR 1894.				FOR THE YEAR 1893.				FOR THE YEAR 1892.			
	Number of mines.	Per cent. of total tons.	Per cent. of total number employed.	Average No. of days active operation.	Number of mines.	Per cent. of total tons.	Per cent. of total number employed.	Average No. of days active operation.	Number of mines.	Per cent. of total tons.	Per cent. of total number employed.	Average No. of days active operation.	Number of mines.	Per cent. of total tons.	Per cent. of total number employed.	Average No. of days active operation.
First.....	26	85.6	80.1	159.4	35	89.9	85.4	161.5	38	96.9	95.5	220	35	95.8	91.6	218.3
Second.....	28	81.9	66.3	176.1	36	79	65.1	171	26	36.1	78.6	223	29	86.8	75.9	214.3
Third.....	66	75.7	76	173	81	83.8	81.6	182.9	80	93.3	85.4	215	84	90.6	85.4	203.8
Fourth.....	64	97.9	94	188.5	63	98.9	81.1	194.7	56	98.4	95.5	251	55	97.8	94.1	239.9
Fifth.....	94	89	85.4	192.6	93	92.1	90.7	186.9	101	95.7	95.1	233	96	98.1	92	221.8
The State.	278	88.2	80.7	182.2	295	91.9	81.2	183	301	95.9	90.7	229.6	299	95.2	88.8	219.5

Taking lump, or screened coal, as the basis of our calculations, it will be seen that, with the steady growth in the output, there has been a corresponding lowering of values.

The following table gives the tonnage and the mine value per ton of lump coal for the State and by districts for the past fourteen years. It will be noticed that the increase in value for the past year has been greater than for any year of the series, with the single exception of 1891.

The lowest average value per ton for the past year obtained in the Fifth District, which is true of the entire series of years, excepting only 1894, when the price was a fraction of a cent above that in the fourth District, which, in turn, has as uniformly ranked next to the lowest.

TABLE XXX—Average value of lump coal per ton—2,000 pounds—at the mines, for fourteen years—by Districts.

YEAR.	Total tons lump coal.	First District.	Second District.	Third District.	Fourth District.	Fifth District.	The State.	Increase, cents.	Decrease, cents.
1882.....	9,115,653	\$1.75	\$1.87	\$1.43	\$1.33	\$1.31	\$1.51	.....	.....
1883.....	10,080,991	1.59	1.97	1.45	1.32	1.26	1.48	.....	3
1884.....	10,101,006	1.49	1.75	1.31	1.09	.961	1.26	.....	32
1885.....	9,791,874	1.41	1.71	1.35	.985	.894	1.17	.....	9
1886.....	9,246,435	1.32	1.57	1.16	.969	.862	1.10	.....	1
1887.....	10,278,890	1.316	1.497	1.095	.887	.823	1.085	.....	1.5
1888.....	11,855,188	1.369	1.473	1.138	.947	.857	1.123	3.8	.....
1889.....	11,597,963	1.355	1.432	1.104	.965	.867	1.078	.....	4.5
1890.....	12,638,364	1.362	1.477	1.065	.873	.811	1.019	.....	5.9
1891.....	12,960,324	1.208	1.436	1.032	.853	.757	1.008	.....	1.1
1892.....	14,730,963	1.325	1.432	1.053	.836	.817	1.029	2.1	.....
1893.....	16,112,899	1.333	1.455	1.074	.836	.803	1.025	.....	4
1894.....	13,865,284	1.316	1.416	1.043	.821	.836	1.009	.....	1.6
1895.....	14,045,982	1.306	1.302	.946	.765	.761	.932	.....	7.7
Net decrease.....	*4,930,309	.545	.568	.484	.565	.549	.578	5.9	.637
Per cent. decrease.....	*54.9	31.14	30.37	33.85	42.41	41.91	38.28	.....	.....

* Increase.

The following table supplements the foregoing by giving the total percentages of decrease for the same period, both in the value of the coal and in the price paid for mining:

TABLE XXXI—Decrease in the value of coal and in the price of hand mining since 1882.

DISTRICTS.	Net decrease in the value of coal per ton.	Per cent. of decrease.	Net decrease in the price paid for hand mining.	Per cent. of decrease.
First.....	\$0.545	31.14	\$0.1297	14.17
Second.....	.568	30.37	.189	19.22
Third.....	.484	33.85	.233	26.63
Fourth.....	.565	42.41	.3165	44.68
Fifth.....	.549	41.91	.2819	45.54
The State.....	\$0.578	38.28	\$0.2291	28.56

To complete the review of this particular line of inquiry, the following table presents, in parallel columns, the total product of lump coal, together with its aggregate value and average value per ton, for a period of seven years, and the aggregate value of the total product, all grades, for the past five years:

TABLE XXXII—Total product and average value of lump coal with aggregate value of lump and other grades.

YEARS	Total product of lump coal, tons.	Average value of lump coal per ton at the mine.	Aggregate value of total product of lump coal at the mine.	Aggregate value of the total product—all grades, at the mine.
1889	11,597,968	\$1.0775	\$12,496,885	.....
1890	12,688,861	1.0194	12,882,986	.....
1891	12,900,324	1.0084	13,068,854	\$14,237,094
1892	14,720,968	1.0291	15,158,480	16,248,645
1893	16,112,899	1.025	16,517,960	17,827,595
1894	18,865,284	1.009	18,998,588	15,282,111
1895	14,045,968	.982	18,090,886	14,289,157

PRICES PAID FOR MINING BY HAND.

Table XXXIII, giving the total tons of lump coal mined in the State and by Districts, for a period of 13 years, shows for 1894 the largest decrease in the price paid for hand-mining of any year in the series. Every district shows a decrease, ranging from 1.65 cents in the Third District to 11.98 cents in the Fifth, and averaging 9.81 cents for the State.

Table XXXIV gives the ratio between value of lump coal and the price paid for hand-mining for the same series of years, and table XXXV gives a summary of the two preceding tables, to which is added a column showing the total product of lump coal, both hand and machine mined. The latter indicates that the use of machines in mines did not cut much figure until 1888. In that year, the lump coal mined by hand was 81 per cent. of the total product. In 1895 it was 56 per cent.

TABLE XXXIII—Average price paid per ton for hand mining—lump coal—by Districts and for 13 years.

YEARS.	Total tons mined by hand.	First District.	Second District.	Third District.	Fourth District.	Fifth District.	The State.	+Increase—cents.	+Decrease—cents.
1883	10,090,991	\$0.917	\$0.983	\$0.875	\$0.71	\$0.619	\$0.802	.....	.....
1884	10,101,005	.906	1.00	.873	.694	.60	.783	.....	1.9
1885	9,791,674	.867	.941	.814	.62	.511	.725	.....	5.8
1886	9,246,425	.859	.927	.799	.573	.501	.676	.....	4.9
1887	10,278,890	.891	.927	.888	.576	.537	.727	5.1	.....
1888	9,411,978	.8885	.9181	.7055	.6136	.5536	.7171	.....	.99
1889	9,251,250	.8918	.9241	.6991	.5991	.525	.7314	1.43	.....
1890	9,056,109	.8122	.8917	.6708	.5833	.5108	.683	.....	4.84
1891	6,694,004	.8617	.8896	.69	.5854	.52	.7153	3.23	.....
1892	7,353,831	.8622	.9134	.6379	.5719	.4234	.7188	.35	.....
1893	6,061,413	.8681	.9074	.653	.5562	.4321	.7145	.....	.43
1894	7,268,850	.8807	.8768	.6885	.46	.4569	.671	.....	4.35
1895	7,868,006	.7873	.794	.642	.3935	.3371	.5729	.....	9.81
*Decrease .....	.....	\$ .1297	\$0.189	\$0.233	\$0.3165	\$0.2819	\$0.2291	10.11	83.02
Per cent. decrease .....	.....	14.17	19.22	26.63	44.58	45.54	28.56	.....	.....

* Difference between 1895 and 1883.

† A comparison of each year with the year previous.

TABLE XXXIV—*Ratio of the price of hand mining to the value of the product.—lump coal*

YEARS.	Tons mined. by hand.	First District.	Second District.	Third District.	Fourth District.	Fifth District.	The State.
1883	10,030,991	57.7	49.9	60.3	53.8	49.1	54.2
1884	10,101,006	60.8	55.9	66.7	63.7	62.4	62.1
1885	9,791,874	61.5	55	65.1	62.9	57.2	62
1886	9,246,435	65.1	59	62.8	59.1	58.1	61.5
1887	10,278,890	67.7	61.9	62.8	64.9	65.2	67
1888	9,611,978	64.9	62.3	62	64.8	64.6	63.9
1889	9,251,250	65.8	64.5	63.3	62.1	60.6	67.9
1890	9,056,109	62.4	60.3	63.8	66.8	63	67
1891	6,694,004	66.4	62.4	66.8	68.6	68.7	70.9
1892	7,353,831	65.2	63.8	60.6	68.4	51.8	69.8
1893	6,061,413	65.1	62.4	60.8	66.5	53.8	69.7
1894	7,368,850	66.9	61.9	63.1	56	55.3	66.5
1895	7,868,006	65.3	60.9	67.8	51.4	44.2	61.4

TABLE XXXV—*Summary: Proportion of lump coal mined by hand; Its value and cost for mining.*

YEARS.	Total tons lump coal.	Total tons mined by hand.	Average value of coal per ton at the mine.	Average prices paid for hand mining.	Ratio price of mining to value of coal.
1883	10,030,991	10,030,991	\$1.48	\$0.802	54.2
1884	10,101,006	10,101,006	1.26	0.783	62.1
1885	9,791,874	9,791,874	1.17	0.735	62
1886	9,246,435	9,246,435	1.10	0.676	61.5
1887	10,278,890	10,278,890	1.085	0.737	67
1888	9,611,978	9,611,978	1.123	0.7171	63.9
1889	11,597,963	9,251,250	1.075	0.7314	67.9
1890	12,632,364	9,056,109	1.019	0.683	67
1891	12,960,234	6,694,004	1.008	0.7153	70.9
1892	14,730,963	7,353,831	1.029	0.7188	69.8
1893	16,114,899	6,061,413	1.025	0.7145	69.7
1894	13,865,284	7,368,850	1.009	0.671	66.5
1895	14,045,962	7,868,006	0.932	0.5729	61.4

SCREENED AND UNSCREENED COAL.

The method of paying for mining by the gross weight of all grades of coal mined is gradually being abandoned, as will appear from the following tables:

TABLE XXXVI—*Total tons of screened coal mined by hand, with the average price of mining, for the years 1893, 1894 and 1895, by Districts.*

DISTRICTS.	FOR THE YEAR 1893.		FOR THE YEAR 1894.		FOR THE YEAR 1895.	
	Total tons mined.	Average rate.	Total tons mined.	Average rate.	Total tons mined.	Average rate.
First	2,089,706	\$0.868	1,715,415	\$0.881	1,874,650	\$0.7973
Second	877,106	0.907	1,264,840	0.877	1,360,802	0.794
Third	1,575,457	0.653	1,515,945	0.659	947,225	0.642
Fourth	366,977	0.566	1,552,964	0.46	1,769,884	0.3935
Fifth	1,202,107	0.432	1,299,696	0.457	1,915,496	0.3371
The State	6,061,413	\$0.715	7,368,850	\$0.671	7,868,006	\$0.5739

TABLE XXXVII—Total tons of unscreened coal mined by hand, with the average price of mining for the years 1893, 1894 and 1895—by Districts.

DISTRICTS.	FOR THE YEAR 1893.		FOR THE YEAR 1894.		FOR THE YEAR 1895.	
	Total tons mined.	Average rate.	Total tons mined.	Average rate.	Total tons mined.	Average rate.
First	806,451	\$0 738	863,837	\$0 727	146,235	\$0 6769
Second.....	1,014,267	0 714	231,018	0 551	353,266	0 594
Third.....	1,104,563	0 515	862,861	0 494	1,502,210	0 419
Fourth.....	2,149,436	0 445	555,780	0 417	455,590	0 423
Fifth.....	804,747	0 862	323,545	0 258	152,129	0 2825
The State.....	5,879,454	\$0 533	2,727,381	\$0 506	2,614,790	\$0 447

More detailed information on this subject is presented in the two following tables, of which Table XXXVIII gives a summarized statement of the record for the past year, and Table XXXIX a comparative statement for the three years past:

TABLE XXXVIII—Summary of coal mined by hand where mining was paid exclusively by the ton and for the gross weight—1895.

COUNTIES AND DISTRICTS.	Number of mines.	Number of men employed.	Average number of days worked.	Average prices paid per ton for mining.	Total tons of coal mined.	Total tons of lump coal.	Total tons of other grades.
THE STATE.....	77	5,688	165	\$0.447	2,984,993	2,383,452	551,546
FIRST DISTRICT.....	11	1,696	192	\$0.6769	438,882	358,025	80,857
LaSalle	6	1,885	*208	\$0.6086	380,398	320,567	59,771
Livingston	4	101	175	.47	54,944	34,858	20,586
Will.....	1	210	21	.80	3,600	3,100	500
SECOND DISTRICT.....	9	962	151	\$0.594	358,266	284,774	73,492
Bureau.....	2	530	123	\$0.65	157,188	135,739	21,444
Mercer.....	3	406	182	.55	196,224	144,824	51,400
Schuyler.....	4	26	141	.589	4,859	4,211	
THIRD DISTRICT.....	49	1,933	153	\$0.419	1,539,631	1,207	
Fulton.....	4	254	109	\$0.4438	107,233		
McLean	4	403	206	.5679	164,222		
Menard	4	237	133	.4133	103		
Peoria.....	18	713	*146	.469	248		
Tazewell	4	183	149	.437	58		
Vermillion.....	15	144	*150	.3404	354		
FOURTH DISTRICT.....	5	360	240	\$0.439			
Christian.....	2	421	233	\$0.376			
Macon	3	429	245	.4305			
FIFTH DISTRICT.....	3	247	183	\$0.3337			
Marion.....	1	159	250	.36			
Perry.....	2	88	150	.341			

* As one mine does not report number of days worked it is

TABLE XXXIX—*Comparative table for 1892, 1893, 1894 and 1895, of coal mined by hand, where mining was paid exclusively by the ton and for gross weight.*

YEARS.	Number of mines.	Number of men employed.	Average number of days worked.	Average price paid per ton for mining.	Total tons of coal mined.	Total tons of lump coal.	Total tons of other grades.
1892.....	77	9,477	212.2	\$0.517	4,687,485	3,735,852	950,633
1893.....	92	11,083	230.5	.533	5,879,454	4,637,906	1,241,548
1894.....	71	6,521	179.6	.506	3,727,331	2,166,044	561,287
1895.....	77	5,698	165	.447	2,934,995	2,385,452	549,543

MINING MACHINES.

Economy in the methods of production is, of course, a most important subject for consideration. Just as in all other industrial pursuits, so in the mining of coal, the desire to produce a maximum of result at a minimum of cost is ever present. Everywhere the more costly and less efficient methods are being displaced by those more economical and more efficient.

This will explain the variations in Table XL, which shows that the number of mines in which coal is mined exclusively by machines is less than any time in the past eight years, but the number of machines in mines of this class is greater than in any year of the same period except 1893, indicating that in those mines where experience has demonstrated the conditions to be favorable for their operation, the number of machines is being increased, while in others their use is being abandoned. It will be noticed that the per cent. of the total product is tolerably constant through the whole series. Table XLI indicates the localities in which machines have been used in the past eight years. This last table included all machines whether used in exclusively machine mines or in mines where the cutting is done both by hand and machine.

It will be seen that no machines have been used in the Second District for the past five years. The Fourth is the only district showing a constant increase in the use of machines, though a large number are used in the Fifth.

TABLE XL—*Mines which use machines exclusively.*

YEARS.	Number of mines.	Number of machines.	Total tons of coal cut.	Total tons of lump coal cut.	Per cent. of total product.*	Number of men employed.	Per cent. of total number of men.*
1888	39	272	.....	2,243,210	18.9	3,088	10.5
1889	35	235	.....	2,346,713	20.2	3,439	11.4
1890	34	266	.....	2,881,983	22.8	3,141	10.9
1891	34	241	.....	2,423,080	18.7	3,005	9.1
1892	34	270	3,664,590	2,911,367	19.9	3,439	10.2
1893	37	388	4,375,626	3,362,679	21	4,091	11.6
1894	36	378	3,255,574	2,496,793	18.01	3,511	8.6
1895	32	283	3,294,039	2,469,804	18.35	3,810	9.8

* A comparison of these machine mines with all mines.

TABLE XLI—*The use of machines during eight years.*

DISTRICTS.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.
First	33	26	27	19	21	10	5	14
Second	8	18	12	.....	.....	.....	.....	.....
Third	13	8	6	6	10	7	3	27
Fourth	120	105	152	149	175	187	191	190
Fifth	98	78	69	67	94	106	92	91
Totals	272	235	266	241	300	310	296	322

The following tables show the counties and districts in which the mines are located which use machines exclusively for under-cutting the coal. There are in this list seven counties representing three districts. Last year there were eight counties, all in the Fourth and Fifth districts.

Perry and Williamson counties, both in the Fifth District and each having last year one exclusively machine mine, have dropped out of this list, and Vermilion county, in the Third District, with two exclusively machine mines, has been added.

TABLE XLII—*Distribution by counties of exclusively machine mines.*

COUNTIES.	District	No of mines.	Number of machines	Number of men employed	Average number of days.	Total number of tons cut
Macoupin	4	9	115	1,428	194.8	1
Madison	4	7	58	959	174.4	
Christian	4	1	11	140	129	
Jackson	5	6	84	596	184.5	
St. Clair	5	6	85	384	307.1	
Clinton	5	1	11	150	219	
Vermilion	3	2	19	153	169.5	
Totals .....	.....	32	363	3,680	187.8	
Eight counties, 1894 .....	.....	36	373	3,311	194.1	
Ten counties, 1893 .....	.....	37	393	4,001	21	
Nine counties, 1892 .....	.....	34	370	3,436	1	

The different makes of mining machines in use in this State for the past eight years, and the field of their present operation, as shown by information gathered from thirty-seven mines, is shown in the following tables.

TABLE XLIII—*Names and number of machines in use.*

Name of Machine.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.
Harrison	245	189	214	168	190	192	186	198
Ingersoll-Sergeant.....			4	12	40	63	65	80
Choteau.....		14	26	27	27	24	26	13
Yock.....	10	15	6	10	19	14	18	22
Kangley.....			5	7	13	5		
Legg.....	17	17	7	11	5			5
Sperry.....			4	5	3			
Jeffrey.....					1	10	6	4
Stanley Header				1	2	2		
Totals.....	272	235	266	241	300	310	296	322

TABLE XLIV—*The distribution of machines.*

DISTRICTS.	NAMES OF MACHINES AND NUMBER IN USE.								Total tons cut—gross weight.
	Harri-son.	Ingersoll-Sergeant.	Cho-teau.	Yock.	Kang-ley.	Jef-frey.*	Stanley Header.	Total.	
First		9				5		14	111,008
Second									
Third	15	8				4		27	177,171
Fourth	130	57	8					190	2,552,751
Fifth	53	6	10	22				81	807,431
Total	198	80	18	22		9		322	3,648,359

* Formerly known as the "Legg."

The two tables following give detailed information concerning all mines in which machines are used, and complete the investigation of the subject of machine mines.

TABLE XLV—*Mines in which machines are used exclusively.*

NAME OF COMPANY.	LOCATION.	# PRODUCT OF THE MINES.		Number of machines.	Name of machines.	Number of men employed.	Number of days worked.
		Total tons cut by machines.	No. of tons of lump coal.				
Consol. Coal Co., No. 6....	Staunton	370,837	266,530	19	Harrison	260	255
Madison Coal Co., No. 5....	Mt. Olive....	235,677	182,893	15	12 Ingersoll-Serg't 3 Choteau	191	176
Madison Coal Co., No. 2....	Glen Carbon..	211,074	151,781	12	Ingersoll-Serg't..	240	186
Consol. Coal Co., No. 10....	Mt. Olive....	192,766	135,030	11	Harrison	198	180
Consol. Coal Co., No. 8....	"	187,582	130,929	16	"	197	163
Consol. Coal Co., No. 7....	Staunton	177,083	122,362	14	"	150	253
Taylorville Coal Co.....	Taylorville...	173,000	139,000	11	"	140	192
Consol. Coal Co. of St. L.							
Abbey No. 3	Collinsville..	158,209	120,793	9	"	148	198
Consol. Coal Co. of St. L.							
Heinz Bluff	Collinsville..	144,485	105,688	8	"	111	201
Big Muddy C. & I. Co., No. 5	Murphysboro	142,801	94,972	10	"	211	178
Girard Coal Co.....	Girard	108,988	90,708	12	Ingersoll-Serg't..	146	150
Consol. Coal Co., Gillespie.	Gillespie	108,166	79,982	14	Harrison	138	165
Madison Coal Co., No. 1....	Glen Carbon..	106,650	72,941	6	Ingersoll-Serg't..	130	206
Madison Coal Co., No. 4....	"	98,899	68,331	7	"	130	163
Glenburn Coal Co.....	Glenburn....	96,207	95,607	15	Harrison	126	265
John Maule, Main	Belleville	90,000	85,000	10	2 Jeffrey	130	280
The Consol. Coal Co.....	Trenton	85,643	67,841	11	6 Choteau	150	212
The Consol. Coal Co., Clyde	Hornsby	81,030	57,123	13	4 Yock	133	171
Big Muddy C. & I. Co., No. 4	Murphysboro	80,238	60,250	10	Harrison	185	149
Eastside Coal Co., No. 4....	"	55,900	39,000	4	"	36	220
Consol. Coal Co. of St. L.							
Troy	Troy	55,259	35,652	8	Harrison	91	163
Lebanon Coal & Mach. Ass'n	Lebanon	52,507	44,412	12	Yock	105	250
Madison Coal Co., No. 3....	Edwardsville	50,815	37,888	8	Ingersoll-Serg't..	109	104
Eastside Coal Co., No. 3....	Murphysboro	39,100	27,400	3	2 Sergeant	42	175
Consol. Coal Co. of St. L.							
Green Mound	Belleville	38,541	29,989	4	1 Yock	48	179
Consol. Coal Co. of St. L.							
Eastside No. 4	Belleville	37,988	29,238	5	Harrison	50	179
Eastside Coal Co., No. 1....	Murphysboro	30,360	28,260	2	Ingersoll-Serg't..	22	312
Big Muddy Coal & Iron Co.							
Harrison	Murphysboro	29,091	20,120	5	4 Harrison	100	73
Oakland Coal Co.....	Belleville	25,749	23,494	2	Ingersoll-Serg't..	21	202
Consol. Coal Co. of St. L.							
Knecht	Belleville	22,544	18,208	2	Harrison	30	153
W. Neil & Co.....	Bunker Hill..	6,260	4,292	1	"	15	260
Westville Coal Co.....	Westville	1,100	1,100	4	2 Harrison	27	18
					2 Jeffrey		
Totals, 1895 (32 mines) ..		3,294,039	2,469,804	283		3,810	6,011
Averages		102,939	77,181	8.8		119.06	187.
Totals, 1894 (36 mines) ..		3,255,574	2,496,793	278		3,311	6,632
Averages		90,433	69,355	7.7		91.97	184.7
Decrease of 1895 compared with 1894 (4 mines decrease)							
Totals			26,989				621
Averages							
Increase of 1895 over 1894:							
Totals		38,465		5		499	
Averages		12,506	7,836	1.1		27.09	

TABLE XLVI—*Mines in which machines are used, but not exclusively.*

NAME OF COMPANY.	LOCATION.	PRODUCT OF MINES.		Number of machines.	Names of machines.	Number of men employed on machines.	Number of days worked.
		Total tons mined, all grades.	Tons cut by machine.				
Gardner-Wilmington Co., No. 2	Clark City...	56,025	44,865	9	Ingersoll-Sergeant...	114	16
M. & H. Zinc Co.	LaSalle	55,004	46,181	5	Legg	42	20
Athens Mining Co.	Athens	70,045	18,764	7	Ingersoll-Sergeant...	49	10
Royster Bros.	Peoria	9,825	1,150	1	"	6	10
Wilmington & Sp'fld. C. Co.	Springfield ..	86,487	35,564	6	Harrison	120	22
Consol. Coal Co. of St. L., Schureman	Belleville....	43,908	43,908	4	Harrison	40	16
Glendale Coal Co.	"	77,190	42,000	4	Choteau	34	15
Crystal Plate Glass Co.	Fredonia	45,876	6,000	3	Harrison	18	4
Totals, 1895 (8 mines)...	.....	444,355	237,397	39	.....	423	1,801

In considering the subject of wages paid in machine mines, considerable difficulty is experienced both from the meagerness of the returns and from the fact that scarcely any two mines pay men working at the same occupation on the same basis. There also seems to be a lack of uniformity in the use of terms indicating the different occupations and of late there has been a tendency to combine two or more into one.

Table XLVII, however, presents the results of a careful examination of the returns from 32 mines in which machines are exclusively used and from which reports are made with sufficient clearness to admit of their use as data upon which to base calculations.

The averages are obtained only on the specified number of men employed at the given rates.

Table XLVIII compares the prices paid for the different classes of work for a period of eight years and it will be seen that, with the exception of loaders, the scale of prices has fallen through the whole list of occupations, in most instances being lower for 1895 than for any year of the series.

TABLE XLVII.—Rate of wages of men employed in exclusively machine mines—1895.

NAME OF COMPANY.	CUTTERS.		BLASTERS.		HELPERS.		LABORERS AND OTHERS.		LOADERS.		TIMBERMEN.		Number of day ¹ worked.
	Number of men.	Rate per day.	Number of men.	Rate per day.	Number of men.	Rate per day.	Number of men.	Rate per day.	Number of men.	Rate per day.	Number of men.	Rate per day.	
Glenburn Coal Co.	15	2 25	15	2 00	15	2 00	8	\$1 50	60	1 75	6	\$1 75	265
Westville Coal Co.	13	2 25	74	2 00	13	2 00	9	1 90	8	1 75	4	1 90	18
Taylorville Coal Co.	32	2 25	74	2 00	32	2 00	4	1 90	112	1 75	6	1 90	192
Con. Coal Co. of St. L., No. 6	14	2 25	74	2 00	14	2 00	84	1 50-3 00	96	1 75	6	1 90	255
" " " " No. 7	16	2 25	74	2 00	16	2 00	26	1 50-3 00	106	1 75	6	1 90	253
" " " " No. 8	15	2 25	74	2 00	15	2 00	59	1 50-3 00	100	1 75	6	1 90	163
" " " " No. 10	15	2 25	74	2 00	15	2 00	68	1 50-3 00	100	1 75	6	1 90	180
" " " " Gillespie	15	2 25	74	2 00	15	2 00	68	1 50-3 00	100	1 75	6	1 90	165
" " " " Clyde	15	2 25	74	2 00	15	2 00	68	1 50-3 00	100	1 75	6	1 90	151
W. Neil & Co.	1	1 75	1	1 50	3	2 00	5	2 00	4	1 50	1	1 50	260
Madison Coal Co., No. 5.	10	2 25	9	2 00	15	2 00	56	75-3 00	103	1 75	2	2 00	176
Girard Coal Co.	10	2 25	9	2 00	15	2 00	56	75-3 00	103	1 75	2	2 00	150
Consol. Coal Co. of St. L., Abbey No. 3.	9	2 25	9	2 25	9	1 75	9	1 50	52	1 75	9	2 00	198
Consol. Coal Co. of St. L., Helaz Bluff	8	2 25	8	2 25	8	1 75	8	1 75	50	1 75	5	2 00	201
Consol. Coal Co. of St. L., Troy	8	2 25	8	2 25	8	1 75	16	1 65	30	1 75	6	2 00	163
Madison Coal Co., No. 1.	12	2 25	12	2 25	12	2 25	19	1 50-2 00	50	1 75	10	2 00	206
" " " " No. 2.	22	2 25	22	2 25	22	2 25	36	1 50-2 00	100	1 75	18	2 00	186
" " " " No. 3.	8	2 25	8	2 25	8	2 25	8	2 25	60	1 75	2	2 00	104
" " " " No. 4.	14	2 25	14	2 25	14	2 25	19	1 50-2 00	45	1 75	14	2 00	163
Consol. Coal Co., Trenton	11	2 25	11	2 25	11	2 25	38	1 00-1 50	60	1 75	10	2 00	212
Big Muddy Coal & Iron Co., No. 4.	18	1 80	18	1 45	18	1 45	84	1 25-1 45	60	1 75	5	1 60	149
Big Muddy Coal & Iron Co., No. 5.	27	2 25	27	2 25	27	2 25	77	1 25-1 45	81	1 75	9	2 00	178
Big Muddy Coal & Iron Co., Harrison	12	2 25	12	2 25	12	2 25	43	1 25-1 45	35	1 75	2	2 00	73
Gartside Coal Co., No. 1.	2	2 25	2	2 00	2	2 00	12	1 15-1 60	10	1 75	4	2 00	312
" " " " No. 3.	10	2 25	10	2 00	10	2 00	12	1 15-1 60	10	1 75	4	2 00	175
" " " " No. 4.	4	2 25	4	2 00	4	2 00	10	1 15-1 60	13	1 75	3	2 00	220
Consol. Coal Co. of St. L., Gartside No. 4.	5	2 25	5	2 00	5	1 75	7	1 00-1 50	30	2 00	2	2 00	153
Consol. Coal Co. of St. L., Knecht	2	2 25	2	2 00	2	1 75	5	1 00-1 50	17	2 00	2	2 00	153
Consol. Coal Co. of St. L., Green Mound	4	2 25	4	2 00	4	1 75	6	1 00-1 50	30	2 00	2	2 00	179
Oakland Coal Co.	2	2 00	2	2 00	2	2 00	3	1 25	12	1 75	2	2 00	202
John Maule, Main	6	2 00	6	1 90	6	1 75	10	1 25-1 50	12	1 75	6	1 75	280
Lebanon Coal and Machine Association	12	2 50	12	2 25	15	1 75	10	1 75	40	1 75	15	2 00	250
Totals (32 mines)	329	2 26	252	2 04	300	1 63	723	1 65	1486	1 75	143	1 96	6011
Averages ***	329	2 26	252	2 04	300	1 63	723	1 65	1486	1 75	143	1 96	188

† Paid by the ton: Cutters, 6 cents; blasters, 6½ cents; helpers, 4 cents; loaders, 12½ cents.

* Not reported.

† Cutters paid 1 to 1.1c. per sq. ft.; blasters, who also do their own loading, 23 to 24c. per ton

‡ Cutters and helpers paid per sq. ft., loaders per car.

§ Cutters and loaders paid by car, helpers by sq. ft. Rates not given.

|| Cutters, .01, blasters, .01, and helpers, .008 per sq. ft.

|| Cutters paid per sq. ft.: a 4c.; b 3½c.

|| Helpers paid per sq. ft.: a 3c.; b 2½c.

|| Loaders paid by box: a 13, b 20.

|| Loaders paid per ton, 13c.

|| Blasters and loaders paid by ton, 18½c.

*** Corresponding men and rate being exactly given, averages are thus based upon the following:

	Cutters.	Blasters.	Helpers.	Laborers.	Loaders.	Timberman
No. mines.....	14	14	15	7	10	19
No. men.....	83	113	111	55	323	127

TABLE XLVIII—Average wages, for eight years, of men in exclusively machine mines.

YEARS.	Total tons of coal mined.	RATES OF WAGES PER DAY.					
		Cutters.	Blasters.	Helpers.	Laborers and others.	Loaders.	Timber-men.
1888	2,243,219	\$2 33	\$2 07	\$1 10	\$1 61	\$1 79	\$2 08
1889	2,346,913	2 34	2 09	1 78	1 66	1 80	2 07
1890	2,881,383	2 29	2 07	1 77	1 73	1 74	2 06
1891	2,423,080	2 36	2 25	1 77	1 75	1 68	2 10
1892	3,664,680	2 27	2 20	1 74	.....	1 75	2 10
1893	4,375,626	2 27	2 10	1 77	1 68	1 75	2 08
1894	3,325,574	2 46	2 26	1 86	1 72	1 72	2 10
1895	3,294,039	2 36	2 04	1 63	1 65	1 75	1 98

In those mines where the coal is mined exclusively by hand, the method of payment of wages by the day rather than by the amount of coal produced, is apparently looked upon with disfavor, and the number of mines in which this system prevails is growing smaller each year, as will be seen by the following table.

TABLE XLIX—Average wages of hand miners working by the day, by Districts, and for four years.

DISTRICTS.	No. of mines.	No. of men.	Average number of days.	Total number of tons mined.	OCCUPATIONS AND AVERAGE RATES OF WAGES PER DAY.									
					Miners.	Rate.	Blasters.	Rate.	Timbermen.	Rate.	Loaders.	Rate.	Laborers and others.	Rate.
First	1	19	210	6,384	17	\$2 00	.....	.....	.....	\$1 75	.....	.....	2	\$1 00
Second	3	52	118	*2,080	36	1 80	.....	.....	2	1 75	.....	.....	14	1 39
Third	5	266	147	152,638	34	1 65	4	\$1 75	.....	1 75	180	\$1 60	46	1 35
Fourth	3	66	176	69,522	66	2 15	.....	.....	.....	2 00	30	1 75	6	1 66
Fifth	15	1,083	176	869,916	139	2 13	137	2 19	26	1 72	116	1 76	223	1 54
Totals and ave.	27	1,486	166	1,100,540	292	\$2 08	141	\$2 12	38	\$1 78	326	\$1 67	291	\$1 46
For 1894	31	1,347	189	1,280,850	291	1 86	124	2 25	29	1 96	285	1 79	278	1 88
For 1893	40	2,020	220	1,790,814	.....	2 15	.....	2 20	.....	1 92	.....	1 76	.....	1 78
For 1892	67	2,986	199	2,112,217	.....	2 16	.....	2 18	.....	1 97	.....	1 73	.....	2 00

* One mine, employing 38 men and working 100 days, makes no report of tons mined.

† Fifty miners receive 13 cents per car. Fourteen miners receive \$3.00 per yard.

‡ One hundred and twenty-two loaders receive 13 cents per ton; 166 loaders receive 12 cents per ton; 90 loaders receive 12 cents per box.

A consideration of the subject of wages would be incomplete without an examination of the question of the interval between payments. It will be found from the following table that as recently as 1893, 67 per cent. of the mines paid wages weekly, in 1895, however, it fell to 30 per cent. The change has been mainly to semi-monthly payments, though an increasing num-

ber of large plants pay monthly. In 1895, 479 mines paid wages bi-weekly and 99 monthly; in 1893, 175 bi-weekly and 62 monthly.

It may be noted that the large concerns pay least frequently, as will be seen from the fact that the average out-put of the weekly paying class is 2,636 tons per mine, while in the semi-monthly class the average output is 27,217, and in the monthly, 37,895 tons. From this fact, it might be a fair inference that the interval between payments is fixed to suit the operators rather than the men, possibly for the reason that the longer the interval between pay-days, the more certain are the men to seek credit at the company stores.

TABLE L—*Payment of wages, weekly, semi-weekly and monthly, at all coal mines in the State, by Districts.*

DISTRICTS.	WAGES PAID WEEKLY.				WAGES PAID SEMI-MONTHLY.				WAGES PAID MONTHLY.			
	Number of mines.	Number of men.	Average number of days.	Total tons mined.	Number of mines.	Number of men.	Average number of days.	Total tons mined.	Number of mines.	Number of men.	Average number of days.	Total tons mined.
First*.....	29	233	167	59,304	34	8,622	160	2,456,835	16	714	172	182,988
Second§...	135	911	148	146,011	83	5,179	150	1,581,709	30	752	178	267,462
Third.....	30	194	173	55,455	212	7,661	189	2,896,808	...	...	...	...
Fourth.....	33	600	120	253,080	64	5,083	163	3,523,580	19	1,841	201	1,723,104
Fifth†.....	35	524	158	194,840	66	4,004	19	2,578,685	44	2,597	175	1,578,116
1895.												
The State‡.	262	2,486	151	740,755	479	30,569	162	13,037,204	99	5,940	180	3,751,670
1894.												
The State..	348	4,489	152	1,651,629	376	25,592	175	11,485,471	90	8,351	168	3,965,512
1893.												
The State..	516	9,726	175	5,234,955	194	19,781	221	10,043,875	62	5,890	220	4,667,754

* Two mines, employing 25 men and producing 6,584 tons of coal, paid wages daily. One mine not included—no report.

§ Seven mines not included—no report. One mine paid by day.

† Fifteen mines, 46 men, 7,800 tons, not reported. Three mines not included—no report.

‡ One mine, employing 70 men, working 200 days, producing 19,870 tons, paid semi-weekly. One mine, employing 6 men, working 147 days, producing 1,291 tons, paid daily. Three mines not included—no report.

‡ Thirty-four mines in State not included.

TABLE LI.—*Classification of mines according to frequency payment, for three years.*

AVERAGES AND PERCENTAGES.	PER CENT. OF MINES, MEN AND OUTPUT IN MINES OF DIFFERENT CLASSES, FOR THREE YEARS.								
	Wages Paid Weekly.			Wages Paid Semi-Monthly.			Wages Paid Monthly.		
Years.	1893.	1894.	1895.	1893.	1894.	1895.	1893.	1894.	1895.
MINES.									
Per cent. of whole number	67	43	31	25	46	57	68	11	
EMPLOYES.									
Average to each mine...	19	13	96	102	68	64	94	93	10
Per cent. of total number	27.6	11.7	6.5	56	66.6	78.3	13.4	21.7	1
OUTPUT.									
Average tons to each mine	10,145	4,746	2,838	51,772	30,546	27,332	75,236	44,061	3
Per cent. of total output.	26.2	9.7	4.24	50.4	67.2	74.36	23.4	23.1	3

POWDER IN HAND MINES.

An important item to be considered in the production of coal is the amount and cost of the powder used. The following tables will show the result of an investigation of this subject.

The total amount of powder used in mines and for all purposes was, in 1895, 324,888 kegs, of which 297,253 kegs were used for purposes which entitle them to consideration in the following investigation.

Only mines using the pillar-and-room system are considered; and of these, the reports from quite a number are defective, as in some instances the number of kegs of powder is given, but they failed to give the price per keg, or *vice versa*. All such are omitted, and while the total number of kegs reported is given in the tables, only such are used in finding averages as are of sufficient completeness and clearness to admit of their being used as data upon which to base calculations. Thus, the average price in Table LIV is based upon the returns from only 3 out of 508 mines in which powder is used in the actual mining of coal. Throughout this whole report the same method was used and care exercised in arriving at averages and percentages.

Table LIII gives the record of the year regarding the use of powder in mining coal where coal is mined by hand, for the State and by districts, while Table LV is a comparative table

for the State, through a period of eight years. It will be observed that there has been a large increase in the number of mines, men, kegs of powder and aggregate amount of coal produced as well as in the average quantity of powder per man in mines where coal is blasted. Its effectiveness, however, seems to be less and the average price per keg is lower.

TABLE LII--*Powder in hand mines, its amount, cost and effectiveness, 1895.*

DISTRICTS.	Number of mines.	Number of men underground.	Number of tons of coal mined.	Number of kegs of powder used.	Average price per keg.	Number of kegs per man.	Number of tons per keg.
First.....	28	2,284	720,487	6,569	\$1 52	2.98	107.5
Second.....	80	1,961	825,826	33,181	1 80	16.9	30.5
Third.....	220	4,982	2,608,881	76,073	1 87	16.7	32.6
Fourth.....	58	4,237	2,911,108	75,705	2 24	17.8	38.4
Fifth.....	127	4,461	3,681,937	105,725	1 92	23.9	34.6
Totals	506	17,895	10,748,224	297,253	\$1 95	17.07	35.63

TABLE LIII--*Powder in hand mines—summary for 8 years.*

YEARS.	Number of mines.	Number of men underground.	Number of kegs of powder.	Number of tons of coal produced.	Average price per keg.	Number of kegs per man.	Number of tons per keg.
1895	508	17,895	297,253	10,748,224	\$1.95	17.07	35.63
1894	276	13,304	204,503	7,599,497	2.041	15.37	37.15
1893	310	17,732	291,708	10,607,847	1.983	16.	36.4
1892	320	17,635	250,327	9,881,659	.....	14.2	39.5
1891	424	14,283	224,226	9,026,083	.....	15.7	40.2
1890	436	13,240	201,285	7,315,157	.....	15.2	36.4
1889	461	10,999	169,332	6,051,149	.....	15.4	35.7
1888	415	10,205	159,908	5,972,796	.....	15.7	37.4

A detailed statement by counties, of the information contained in Table LII is presented in the following. This will indicate closely the location of the mines using powder, as well as its comparative effectiveness in the different localities.

The mines included in these tables are all hand mines. In this class the miners usually furnish their own powder. The aggregate cost of the powder for 1895 was \$579,643.35 and an average of \$35.60 per man in mines where it was used.

TABLE LIV—*Use of powder in hand mines—by Counties, Districts and the State—1895.*

THE STATE, DISTRICTS AND COUNTIES.	Number of mines.	Number of miners employed under ground.	Number of tons of coal mined.	Number of kegs of powder used.	Average price per keg.	Number of kegs per man.	Number of tons per keg.
THE STATE	508	17,895	10,748,224	297,253	\$1 95	17.07	35.8
FIRST DISTRICT	28	2,284	720,487	6,569	\$1 52	2.93	107.5
Kankakee	1	205	56,025	800	\$1 65	3.9	70.0
LaSalle	15	1,290	427,558	2,582	1 49	2	165.5
Livingston	12	789	236,904	3,187	1 50	4.3	69.9
SECOND DISTRICT	80	1,961	825,826	33,181	\$1 80	16.9	30.5
Bureau	6	59	11,791	430	\$1 99	6.08	28
Henry	2	21	3,549	145	1 93	6.9	24.4
Knox	6	127	19,615	292	1 64	2.3	65.8
Marshall	14	589	264,564	8,921	1 75	15.2	29.6
Mercer	14	566	462,011	21,195	1 83	24.4	21.7
Rock Island	13	148	35,947	1,276	1 66	8.6	25.1
Schuyler	8	51	10,875	430	2 03	8.4	25.3
Stark	12	81	15,502	423	1 54	5.5	25.5
Warren	3	19	1,972	73	1 76	3.8	27.0
THIRD DISTRICT	220	4,932	2,608,881	76,073	\$1 87	16.7	32.6
Fulton	63	1,108	442,278	17,175	\$2 09	17.2	25.6
Logan	3	229	181,975	7,015	2 03	30.6	25.9
McLean	2	75	31,543	1,140	2 24	15.2	27.6
Menard	10	573	277,738	9,579	2 25	16.7	28.9
Peoria	76	991	411,191	15,872	1 79	21.8	18.4
Tazewell	11	263	94,106	4,494	2 00	17.08	20.9
Vermilion	55	1,693	1,170,050	20,798	1 49	12.3	56.1
FOURTH DISTRICT	53	4,257	2,911,103	75,705	\$2 24	17.8	38.4
Bond	1	90	98,515	2,007	\$2 00	23.3	46.5
Calhoun	1	30	9,200	480	1 65	16	19.1
Christian	5	980	562,361	3,816	2 00	3.9	147.3
Macon	1	106	45,000	1,987	.....	18.7	22.6
Macoupin	10	557	480,613	12,965	2 23	23.3	37
Madison	5	221	145,770	3,738	1 91	16.9	28.9
Montgomery	3	330	189,096	3,229	1 93	9.8	58.5
Sangamon	25	1,795	1,318,092	43,919	2 25	24.4	30
Scott	1	48	14,950	564	2 00	11.7	26.5
Shelby	1	100	52,506	3,000	2 25	30	17.5
FIFTH DISTRICT	127	4,461	3,681,927	105,735	\$1 92	23.9	34.6
Clinton	2	175	198,844	4,533	.....	26	43.8
Gallatin	5	57	20,390	512	\$2 64	9	3.9
Jackson	8	402	362,135	9,107	1 50	22.6	39.7
Jefferson	1	25	27,800	695	2 23	21.8	40.1
Marion	5	437	512,900	15,402	2 06	35.2	33.3
Perry	22	1,003	592,444	18,430	2 00	18.3	32.1
Randolph	14	272	193,190	7,421	1 75	26.9	26.2
Saline	5	104	44,822	457	2 02	4.2	98.9
St. Clair	51	1,336	1,211,767	35,098	1 54	26.2	34.5
Washington	3	85	56,229	1,395	1 79	16.4	40.8
Williamson	14	565	461,475	12,675	1 73	22.4	36.4

POWDER IN MACHINE MINES.

In machine mines the powder is generally furnished by the operators. The following tables give information concerning

the use of powder where machines are used in mining the coal. The last of this series of tables—Table No. LVII—is a summary or condensation of the preceding tables.

TABLE LV—*Use of powder in exclusively machine mines—1895.*

DISTRICTS AND COUNTIES.	COMPANY.	Name or No. of Mine.	No. of mines.	No. of machines.	No. of employees underground.	No. of tons of coal produced, all grades.	No. of kegs of powder used.	No. tons produced per keg.
THE STATE.....			30	264	3,201	3,196,742	25,890	113.7
FOURTH DISTRICT.....			17	184	2,213	2,466,270	20,816	118.4
Christian.....	Taylorville Coal Co.....	Taylorville...	1	11	115	173,000	1,300	133.08
Macoupin.....	Con. Coal Co. of St. Louis.	No. 6.....	1	19	228	370,837	2,389	155.23
	"	" 7.....	1	14	130	177,083	1,357	130.5
	"	" 8.....	1	16	173	187,582	1,052	178.31
	"	" 10.....	1	11	173	192,766	1,183	162.9
	"	Gillespie.....	1	14	117	108,166	883	122.5
	"	Clyde.....	1	13	118	81,020	730	110.9
	Madison Coal Co.....	Mt. Olive.....	1	15	170	235,677	1,439	163.8
	Girard.....	Girard.....	1	12	131	108,988	1,598	78.2
	W. Neil & Co.....	Bunker Hill.....	1	1	12	6,260	60	104.3
Madison.....	Con. Coal Co. of St. Louis	Abbey No. 3.....	1	9	124	158,209	1,080	146.5
	"	Heinz Bluff.....	1	8	94	144,485	999	144.6
	"	Troy.....	1	8	78	55,259	337	163.9
	Madison Coal Co.....	No. 1.....	1	6	115	106,650	1,705	62.5
	"	" 2.....	1	12	220	211,074	2,993	70.5
	"	" 3.....	1	8	95	50,315	454	110.8
	"	" 4.....	1	7	130	98,899	1,462	67.6
FIFTH DISTRICT..			13	80	988	730,472	5,074	94.2
Clinton.....	Consolidated Coal Co.....	Trenton.....	1	11	115	85,643	872	98.2
Jackson.....	Big Muddy Coal & Iron Co.	No. 4.....	1	10	175	80,238		
	"	" 5.....	1	10	191	148,301		
	"	Harrison.....	1	5	87	28,091		
	Gartside Coal Co.....	No. 1.....	1	2	15	30,360	300	101.2
	"	" 3.....	1	3	33	39,100	500	78.2
	"	" 4.....	1	4	26	53,900	700	78.8
St. Clair.....	Con. Coal Co. of St. Louis.	Gartside No. 4.....	1	5	43	37,988	401	94.7
	"	Knecht.....	1	2	25	32,544	396	56.9
	"	Green Mound.....	1	4	42	38,541	380	101.4
	Oakland Coal Co.....	Belleville.....	1	3	18	25,744	225	114.4
	John Maule.....	Main.....	1	10	130	90,000	500	180
	Lebanon C. & Machine Co.	Lebanon.....	1	12	95	52,507	800	65.6

TABLE LVI—*Powder in machine mines—Summary for 8 years.*

Years.	Number of mines.	Number of machines.	Number of men employed underground.	Number of tons of coal produced.	Number of kegs of powder used during the year.	Number of tons produced per keg.	Number of tons produced per machine.
1895.....	30	264	3,201	3,196,742	25,890	113.7	12,106
1894.....	36	278	3,378	3,255,574	33,060	98.4	11,711
1893.....	37	288	4,091	4,375,625	49,707	88	15,193
1892.....	34	270	3,439	3,664,590	38,447	95.3	13,573
1891.....	27	211	2,789	2,798,207	32,525	98.1	13,262
1890.....	25	207	2,733	2,654,150	32,454	81.7	12,822
1889.....	24	162	2,763	1,366,333	19,109	102.4	12,051
1888.....	25	209	2,552	1,916,091	19,725	97.14	9,168

TABLE LVII—*Consumption of powder in hand and machine mines—1895.*

Kind of Mining.	Number of mines.	Number of men underground.	Number of kegs of powder used.	Number of tons of coal produced.	Number of kegs per man.	Number of tons per keg.	Total number of kegs used.*
Hand mines.....	508	17,895	297,253	10,748,324	17.07	35.63	.....
Machine mines.....	80	3,201	25,890	3,196,742	8.09	113.7	.....
Totals.....	588	21,096	325,143	13,944,966	15.67	42.67	394,933
1894.....	811	16,682	237,603	10,855,071	14.2	45.7	318,288
1893.....	847	21,723	341,415	14,933,473	15.7	43.9	363,772
1892.....	854	21,074	288,774	13,546,249	13.7	64.3	299,467

* Includes powder used for incidental purposes.

CASUALTIES.

That part of the report dealing with accidents in the mines, emphasizes the dangerous character of this occupation and must ever be a most unpleasant subject of investigation. To an unusual degree is this true of the past year, in which the casualties have been of far greater frequency than for many years. Table LVIII gives the history of the fatal accidents for the past twelve months, for the State by districts. It will be seen that the number of fatalities were the same, 16, in the First, Third and Sixth Districts, while there were 15 in the Fourth and 12 in the Second, making a total of 75 for the State. As regards the number of employes to each man killed, the First District makes the best showing with 603 and the Third makes the poorest with only 413. The average for the State is 515. In the matter of the amount of coal produced to each death, the Second District makes the poorest showing, while the Fifth makes the best, and does much to bring up the average for the State, which is lower than for many years.

TABLE LVIII—*Total fatal accidents, by Districts—1895.*

Districts.	Number killed.	Number of employes.	Number of tons of coal mined. All grades.	Number of employes to each death.	Number of tons of all grades to each death.
First.....	16	9,644	2,735,711	603	170,092
Second.....	12	7,184	1,995,298	599	166,275
Third.....	16	6,607	2,952,260	413	184,516
Fourth.....	15	8,005	5,612,764	534	374,184
Fifth.....	16	7,190	4,439,831	449	277,477
Totals.....	75	38,630	17,735,864	515	236,478

Table LIX gives a comparative statement for the State covering the same ground, for a period of thirteen years.

TABLE LIX—*Fatal accidents for 13 years.*

Years.	Number killed.	Total number of employes.	Total number of tons of coal mined.	Number of employes to each life lost.	Number of tons of coal produced to each life lost.
1883	184	23,939	12,123,456	179.6	90,474
1884	46	25,575	12,308,075	566	265,393
1885	39	25,446	11,834,459	652.4	303,448
1886	52	25,846	11,175,241	497	214,909
1887	41	26,804	12,422,066	654	308,002
1888	55	29,410	14,328,181	534.7	260,512
1889	42	30,076	14,017,298	716.1	333,745
1890	58	28,574	15,274,727	539.1	290,316
1891	60	32,951	15,680,698	549	261,012
1892	57	32,632	17,062,276	590	313,372
1893	69	35,390	19,949,564	513	259,124
1894	72	38,477	17,113,576	534	237,688
1895	75	38,630	17,735,864	515	226,473
Averages, 13 years	61	30,365	14,685,114	541.5	240,124

Table LX gives a detailed statement for 1895, showing the mines in which the accidents occurred.

TABLE LX.—*Fatal accidents, number of mines, men and ton with ratios.*

NAME OF COMPANY, FIRM OR PERSON OPERATING MINE.	Number of men killed.	Number of mines operated	Number of men employed.	Total number of tons of coal pro- duced at the mines.	Number of men employed to one man killed.	Number of tons of coal pro- duced to one man killed.	
Acme Coal Co	1	1	108	31,427	108	31,42	
Alden Coal Co	1	1	224	134,731	224	134,73	
Assumption Coal Co	3	1	140	43,888	47	16,12	
Attness Mining Co	1	1	181	70,045	181	70,04	
Big Muddy Coal and Iron Co..	1	1	211	142,801	211	142,80	
Braceville Coal Co	2	1	510	213,886	255	106,88	
Brown, F. M.	1	1	3	200	3	20	
Chi., Wl. & Ver. Coal Co	3	2	980	260,516	297	86,89	
Chicago & Minonk C. & T. Co.	1	1	328	75,000	328	75,00	
Centralia Min'g. and M'fg Co..	1	1	180	76,908	180	76,90	
Clear Lake Coal Co	1	1	73	71,444	73	71,44	
Consolidated Coal Co	4	4	731	502,423	183	122,10	
Devlin Coal Co	2	1	619	262,390	309	131,15	
Dunn, John	2	1	7	1,975	3	89	
DuQuoin Union Coal Co	1	1	165	100,000	165	100,00	
Empire Coal Co	1	1	202	108,456	202	108,45	
Gardner Wilmington Coal Co.	1	1	230	56,025	230	56,02	
Gartside Coal Co	1	1	36	55,900	36	55,90	
Glendale Coal Co	1	1	93	77,190	93	77,19	
Glenburn Coal Co	2	1	185	96,207	98	48,10	
Grape Creek Coal Co	1	1	*	*	*	*	
Green Ridge Coal Co	1	1	83	23,953	83	23,95	
Jones, Samuel	1	1	12	2,548	12	2,54	
Kelley Coal Co	3	1	320	210,364	107	70,12	
Kloess, John	1	1	51	16,126	51	16,12	
Krantz & Co., J.	1	1	14	11,714	14	11,71	
LaSalle Coal & Carbon Co	1	1	309	103,555	309	103,55	
Lincoln Coal Co	1	1	127	80,526	127	80,52	
Marissa Coal Co	1	1	48	37,604	48	37,60	
Marquette Coal Co	1	1	220	59,590	220	59,59	
Newsam Bros	1	1	128	74,570	128	74,57	
Odin Coal Co	1	1	155	99,328	155	99,32	
Oglesby Coal Co	2	1	313	73,694	157	26,87	
Pawnee Coal Co	2	1	306	300,021	153	150,01	
Pittinger & Davis	1	1	173	155,303	173	155,30	
Powers, Thomas	2	1	7	344	3	17	
Sandoval Coal Co	1	1	125	175,625	125	175,62	
Scholl Bros	1	1	87	20,705	87	20,70	
Springfield Junction Coal Co..	1	1	105	43,600	105	43,60	
Spring Hill Coal Co	2	1	155	24,567	78	12,29	
Springdale Coal Co	3	1	250	141,079	83	47,02	
Spring Valley Coal Co	1	1	364	88,473	364	88,47	
Star Coal Co	2	1	550	180,865	275	90,43	
St. Louis & Big Muddy Coal Co	1	1	233	261,535	233	261,53	
Stewart Coal Co	1	1	7	810	7	31	
Sun Coal and Coke Co	1	1	75	23,852	75	23,85	
Sunday Creek Coal Co	2	1	446	157,896	223	78,90	
Taylorville Coal Co	1	1	140	173,000	140	173,00	
Valley and Gulf Coal Co	1	1	81	42,408	81	42,40	
Virden Coal Co	1	1	86	44,613	86	44,61	
Wenona Coal Co	1	1	275	71,141	275	71,14	
Wesley Union Fuel Co	1	1	35	14,070	35	14,07	
White Oak Coal Co	1	1	41	47,808	41	47,80	
Wl. & Springfield Coal Co...	1	1	160	56,487	160	56,48	
1895	75	58	10,529	5,221,205	142	70,55	
1894	72	58	11,733	5,270,632	168	73,30	
Totals and averages.	1893	69	55	8,948	5,221,582	130	75,67
1892	57	80	13,919	8,047,920	244	141,19	
1891	60	86	13,298	7,086,723	223	118,11	
The State, 1895	75	874	38,630	17,735,864	515	286,47	

* Not reported.

Table LXI deals with the families left destitute, of homes made desolate. It shows a larger number of wives made widows than in any of the nine preceding years, and only twice in that time has the number of children left fatherless been so great.

TABLE LXI—*Fatal accidents, widows and orphans, for 10 years.*

YEARS.	Deaths.	Married.	Single.	Widows.	Fatherless child'n	AVERAGES, BY YEARS.				
						No. of years	Deaths.	Married.	Single.	Fatherless children.
1886.....	52	30	23	30	76	2	46.5	27	19.5	26
1887.....	41	24	17	23	77	3	49.3	27.3	22	26.7
1888.....	55	28	27	28	86	4	47.5	26.5	21	25
1889.....	42	24	18	20	75	5	48.6	27.8	21	26.6
1890.....	53	33	20	33	75	6	50.5	29.7	21	28.3
1891.....	60	39	21	37	112	7	51.4	27	22.6	27.9
1892.....	57	24	33	24	68	8	53.6	29.5	24.1	28.2
1893.....	69	34	35	32	106	9	55.7	31.1	24	29.6
1894.....	72	44	28	41	123	10	57.6	32.4	25.2	30.9
1895.....	75	44	31	42	111					
Totals..	576	324	252	309	907					

Table LXII shows the principal causes of fatalities and indicates the localities in which they occurred.

It will be seen that, as in former years, the most common source of danger is in falling rock and coal. Table LXIII gives the same record for the State as a whole, through a period of 8 years.

TABLE LXII—*Fatal accidents, by causes, 1895.*

CAUSES.	Totals.	First District.	Second District.	Third District.	Fourth District.	Fifth District.	Percent-ages.
Black damp and gas.....	5	2	2	1			6.7
Cages.....	4	2			1	1	5.8
Explosion, blast.....	2		1				2.7
“ powder.....	3	1				2	4.0
Falling coal and rock.....	38	8	7	7	7	9	50.7
“ down shaft.....	4			2	2		5.3
“ timber.....	1				1		1.3
Firing shot.....	2	2					2.7
Flying coal from shot.....	5			3	1	1	6.7
Gearing of elevator.....	1		1				1.3
Hook falling down shaft.....	1				1		1.3
Kicked by mule.....	1			1			1.3
Pit-cars.....	5			2	1	2	6.7
Railroad cars.....	1				1		1.3
Unknown.....	2	1	1				2.7
Totals 1895.....	75	16	12	16	15	16	100.0
1894.....	72	19	9	10	19	15	
1893.....	69	17	5	12	10	15	
1892.....	57	10	1	11	24	11	
1891.....	60	15	4	9	12	10	
1890.....	53	16	5	10	11	11	

TABLE LXIII—*Fatal accidents for 8 years by leading causes.*

CAUSES.	1888	1889	1890	1891	1892	1893	1894	1895	Totals.	Percentage for the eight years.
Blasts, explosions, etc.....	9	3	4	11	4	6	8	12	57	11.8
Cages.....	2	4	4	4	4	4	8	4	34	7.0
Coal and other things falling down shaft.....	1	1	1	2	1	1	1	1	5	1.0
Falling down shaft.....	4	2	1	8	3	5	4	27	5.6	
Falling coal and rock, etc.....	33	26	36	33	28	48	43	38	285	59.0
Falling props, etc.....	1	1	1	3	2	1	1	8	1.7	
Fire damp and gas.....	1	5	4	2	3	5	19	3.9		
Pit cars.....	6	5	3	2	6	2	6	5	35	7.3
Railroad cars.....	1	1	2	1	1	2	1	9	1.9	
Other causes.....	1	1	1	1	1	1	4	4	.8	
Totals.....	55	42	53	60	57	69	72	75	483	100.0

Tables LXIV and LXV show the number and percentage of fatal accidents from falling rock and coal, and from other causes, for a period of 13 years, and tables show the occupation and conjugal relation of the victims.

TABLE LXIV—*Total number of fatal accidents and the percentages caused by falling roof and sides—for 13 years—by Districts and for the State.*

YEAR.	FIRST DISTRICT.		SECOND DISTRICT.		THIRD DISTRICT.		FOURTH DISTRICT.		FIFTH DISTRICT.		THE STATE.	
	Total	Per cent.	Total	Per cent.	Total	Per cent.	Total	Per cent.	Total	Per cent.	Total accidents	Per cent. killed by falling rock and coal.
1883.....	79	8.9	1	100	18	32.4	16	56.2	20	50	134	31.4
1884.....	11	27.3	6	83.3	12	66.7	9	44.4	8	75	46	56.5
1885.....	10	60	3	.....	6	33.3	13	69.2	7	43	39	51.3
1886.....	14	64.3	6	50	11	45.5	9	89	12	58.3	52	61.5
1887.....	14	71.4	5	60	5	60	3	66	14	71.4	41	68.3
1888.....	19	84.2	5	20	10	50	8	62.5	13	46.2	55	60
1889.....	14	57.1	3	33.3	6	50	8	75	11	72.7	42	62
1890.....	16	98.8	5	20	10	80	11	45.5	11	63.6	53	67.9
1891.....	15	66.7	4	50	9	44.4	12	50	20	55	60	55
1892.....	10	80	1	100	11	45.5	24	33.3	11	54.5	57	49.1
1893.....	17	88.2	5	60	12	66.6	10	60	25	64	69	69.6
1894.....	19	63.4	9	44.4	10	50	19	52.6	15	66.6	72	58.3
1895.....	16	50	12	58.3	16	43.75	15	46.67	16	56.25	75	50.67
Totals..	234	50.39	65	50.76	136	56.61	157	54.14	183	60.65	795	54.59

TABLE LXV—Total number of fatal accidents, and number caused by falling roof and sides, also the total number from all other sources, by Districts, for 13 years.

YEAR.	FIRST DISTRICT.			SECOND DISTRICT.			THIRD DISTRICT.			FOURTH DISTRICT.			FIFTH DISTRICT.			THE STATE.		
	CASUALTIES.			CASUALTIES.			CASUALTIES.			CASUALTIES.			CASUALTIES.			CASUALTIES.		
	Total killed.	By falling rock and coal.	By other causes.	Total killed.	By falling rock and coal.	By other causes.	Total killed.	By falling rock and coal.	By other causes.	Total killed.	By falling rock and coal.	By other causes.	Total killed.	By falling rock and coal.	By other causes.	Total killed.	By falling rock and coal.	By other causes.
1883.....	79	7	72	1	1	...	18	14	4	16	9	7	20	12	8	134	43	91
1884.....	11	3	8	6	1	5	12	8	4	9	4	5	8	6	2	46	26	20
1885.....	10	6	4	3	...	3	6	2	4	13	9	4	7	2	4	39	20	19
1886.....	14	9	5	6	...	3	11	12	6	9	2	1	12	6	5	52	32	20
1887.....	14	10	4	5	3	2	5	5	2	3	2	1	14	10	4	41	28	13
1888.....	19	16	3	5	1	4	10	10	3	5	8	3	13	6	7	55	33	22
1889.....	14	8	6	3	1	2	6	3	3	8	6	2	11	8	3	43	26	16
1890.....	16	15	1	5	1	4	10	11	5	6	11	5	6	11	4	53	36	17
1891.....	15	10	5	4	2	2	9	4	5	12	6	6	20	11	9	60	33	27
1892.....	10	8	2	1	1	...	11	11	5	6	24	8	16	11	6	57	29	29
1893.....	17	15	2	5	3	2	12	12	4	10	6	4	25	16	9	69	48	21
1894.....	19	13	6	9	5	4	10	10	5	19	10	9	15	10	5	72	43	29
1895.....	16	8	8	12	7	5	16	7	9	15	7	8	16	9	7	75	38	37
Totals.....	254	128	126	65	33	32	136	77	59	157	85	72	183	111	72	795	431	364

TABLE LXVI—Fatal casualties—by occupations and conjugal relations—by Districts.

OCCUPATIONS.	DISTRICTS AND NUMBER KILLED IN EACH.					Total number killed	CONJUGAL RELATIONS.				Total dependents
	First.	Second.	Third.	Fourth.	Fifth.		Married.	Single.	Widows.	Children.	
Blasters.....	2	2	2	...	2	9	11
Cager.....	1	...	...	...	1	1	1	1	1	...	1
Drivers.....	2	...	...	2	2	...	2	2	4
Gripper.....	1	...	1	...	1	...	...	...
Laborer.....	1	1	2	1	1	1	1	2
Loaders.....	1	...	2	3	1	2	...	...	1
Machine-helper.....	1	...	1	2	2	...	...	...	...
Miners.....	15	9	11	...	8	50	32	18	30	90	111
Mine-owner.....	...	1	...	...	...	1	...	1	...	...	...
Night-man.....	1	1	1	1	1	...	1
Roadmen.....	1	...	1	2	1	1	1	...	1
Sinkers.....	...	1	...	1	...	2	1	1	1	3	4
Slate-picker.....	...	1	...	...	...	1	...	1	...	...	...
Stableman.....	1	...	1	1	...	1	1	2
Timberman.....	1	...	1	...	1	...	...	...
Top-foreman.....	1	...	1	1	...	1	2	3
Topman.....	1	...	1	1	...	1	3	4
Totals.....	16	12	16	15	16	75	44	31	42	111	144

NON-FATAL ACCIDENTS.

On this subject the report of 1894 had this to say: "The unusual increase in this class of accidents for the past year has been of such excessive proportions, as compared with former years, that some reasons should be found in explanation."

Since the above was written the conditions have not improved—they have grown worse. It will be seen from the following tables that during the year 605 men were injured in a greater or lesser degree, but all so seriously as to lose time, as compared with the 521 in 1894, which called for the strong language quoted above. There was one man injured to each 64 employed and to each 29,315 tons of coal produced, as against 74 employés and 32,848 tons in 1894. In one district only, the fifth, is any improvement noted. In this district there were 100 men injured this year and 128 last. Table LXVII gives the accidents for the past year by districts and for the State, while Table LXVIII compares the record for the State through a period of 13 years.

TABLE LXVII—*Non-fatal accidents—by Districts—1895.*

DISTRICTS.	Number of men injured.	Number of employés.	Number of tons of coal mined—all grades.	Number of employés to each injury.	Number of tons of all grades to one man injured.
First	214	9,644	2,735,711	45	12,783
Second	93	7,184	1,995,298	77	21,455
Third	59	6,607	2,962,260	112	51,038
Fourth	139	8,006	5,612,764	58	40,330
Fifth	100	7,190	4,439,831	72	44,398
The State	605	38,630	17,735,864	64	29,315

TABLE LXVIII—*Non-fatal accidents for thirteen years.*

YEARS.	Number of men injured.	Total number of employés.	Total number of tons of coal mined.	Number of employés to one man injured.	Number of tons of coal produced to one man injured.
1883	231	23,939	12,123,456	103.6	52,482
1884	197	25,575	12,308,075	129.8	61,970
1885	176	25,446	11,894,459	144.6	67,241
1886	171	25,846	11,175,241	151.	66,136
1887	180	26,804	12,423,066	149	69,017
1888	179	29,410	14,328,181	164.3	80,046
1889	201	30,076	14,017,298	149.6	69,732
1890	294	28,574	15,274,727	97.2	51,955
1891	367	32,951	15,660,698	89.8	42,672
1892	370	33,632	17,062,276	91.	46,114
1893	403	35,390	19,949,564	88	49,503
1894	521	35,477	17,113,576	74	32,848
1895	605	38,630	17,735,864	64	29,315
Averages—13 years	253	30,365	14,685,114	101.3	49,011

TABLE LXIX—*Development of casualties—by periods; comparative increase.*

Averages, Increase, Percentages and Years.	Men injured.	Men employed.	Tons of coal mined.
Average 7 years—1883-1889.....	191	26,728	12,587,111
Average 5 years—1890-1894.....	391	33,805	17,012,188
Average 13 years—1883-1895.....	253	30,365	14,685,114
Increase 7 years—1883-1889.....	*	6,187	1,893,847
Increase 5 years—1890-1894.....	237	9,908	1,888,849
Increase 13 years—1883-1895.....	374	14,691	5,612,408
Per cent. increase 7 years—1883-1889.....	*	25.6	15.6
Per cent. increase 5 years—1890-1894.....	77.2	34.7	11
Per cent. increase 13 years—1883-1895.....	161.9	61.3	46.3

* A decrease of 80, or 13 per cent.

That the increase in casualties has not merely kept pace with the growing tonnage or the larger number of men employed, is shown by Table LXIX. It will be seen that, while the output has increased 46.3 per cent. and the number of men employed is 61.3 per cent. greater, the number of men injured is 161.9 per cent. larger than in 1883.

TABLE LXX—*Fatal and non-fatal accidents, 13 years—1883-1895.*

YEARS.	Number killed.	Number injured.	Total number of men employed	Total number of tons of coal mined.	FATAL CASUALTIES.		NON-FATAL CASUALTIES.	
					Number of employees to each life lost.	Number of tons of coal mined to each life lost.	Number of employees to each man injured.	Number of tons of coal mined to each man injured.
1883.....	134	231	23,989	12,123,456	179.6	90,474	103.6	52,483
1884.....	46	197	25,575	12,208,075	556	265,393	129.8	61,970
1885.....	39	176	25,446	11,834,459	652.4	363,448	144.6	67,241
1886.....	52	171	25,846	11,175,241	497	214,909	151	66,126
1887.....	41	180	26,804	12,423,066	654	303,002	149	69,019
1888.....	55	179	29,410	14,328,181	534.7	260,512	164.3	80,246
1889.....	42	201	30,076	14,017,296	716.1	333,745	149.6	69,720
1890.....	53	294	28,574	15,274,727	539.1	286,316	97.2	57
1891.....	60	367	32,291	15,660,698	549	261,012	89.8	
1892.....	57	370	33,632	17,062,276	590	313,372	91	
1893.....	69	403	35,390	19,949,564	513	289,124	88	
1894.....	72	521	38,477	17,113,576	534	237,688	74	
1895.....	75	605	38,630	17,735,864	515	236,478	64	
Totals...	795	3,895	394,750	190,906,481				
Averages	61	253	30,365	14,685,114	541.5	261,190	101.3	

The occupations and family relations of those injured, time lost by them, is shown in the following tables. It is seen that 295 of these men were married and that in 1,004 persons were deprived of their wages for a longer or shorter period of time. In consequence

accidents there were, in all, 20,079 days time lost, or an average of 36 4 days to each man. How serious a matter this is will be seen when it is considered that the pay is but poor at best, and that the average working time of the mines throughout the State is but 182.2 days per year.

TABLE LXXI—*Non-fatal accidents by occupations, with conjugal relations of the injured.*

OCCUPATIONS.	Total No. Injured.	DISTRICTS AND NUMBER INJURED IN EACH.					CONJUGAL RELATIONS.			
		First.	Second.	Third.	Fourth.	Fifth.	Single.	Married.	Children.	Depend- ents.
Blacksmith	1					1	1			
Blasters	3					1	2		2	8
Cagers	16	3	4	2	4	3	4	11	34	37
Car-couplers	3			2	1		2	1	1	1
Car-loaders	2					2		2		1
Carpenters	2	1			1			2	11	13
Car-runner	1		1				1			
Car-trimmers	2				2		2			
Coal-pickers	3	3				1	1	2	7	6
Driller	1					1	1			
Drivers	62	11	10	5	17	19	49	13	25	35
Engineers	6		3		2	1		6	23	25
Firemen	2		1	1			1	1	3	3
Greasers	2				2		2			
Grippers	3				3		3			
Laborers	25	3	12	4	3	3	14	11	27	31
Loaders	24			3	15	6	11	13	54	57
Machinists	1		1				1			
Machine-helpers	4				2	2	3	1	6	7
Miners	396	184	59	36	67	50	175	200	542	675
Mine-managers	2		1		1			2	6	5
Roadmen	5	3	1	1				5	10	13
Shoveler	1					1	1			
Sinker	1					1		1	2	3
Slackmen	5				4	1	1	4	11	11
Stablemen	2	2					1	1	3	4
Teamster	1			1				1	4	4
Timbermen	10				5	5		7	23	30
Topmen	10	2			7	1	1	4	6	9
Tracklayers	2			2				2	10	10
Trappers	3				1	2	3			
Trip-riders	3	1		2			1	2	5	5
Water-baller	1	1						1	8	9
Totals	*605	214	93	59	139	100	280	295	827	1,004

* Thirty men not reported whether married or single.

TABLE LXXII—*Non-fatal accidents, with time lost by injuries, by Districts.*

DISTRICTS.	Totals.	Single.	Married.	Children.	Dependents.	Total time lost, days.	Average number days lost per man.	Number of men reported as losing time.
First	214	106	108	259	364	6,548	31.5	189
Second	93	43	50	91	141	2,040	25	82
Third	59	25	34	78	104	2,487	32.5	58
Fourth	139	53	58	200	234	4,116	30.9	133
Fifth	100	58	45	120	161	4,908	54.5	90
Totals	*605	290	295	748	1,004	20,079	†33.4	552

* Thirty men not reported whether married or single.

† In estimating average number of days lost, those men only are included who had reported for work July 1, 1896.

In the following table will be found the nature of the injuries sustained:

TABLE LXXIII—*Non-fatal accidents, by nature of injuries and by Districts.*

INJURIES.	DISTRICTS.					Totals.	Percent-ages.
	First.	Second.	Third.	Fourth.	Fifth.		
Ankles broken	1	1	2	1	2	3	.496
Ankles dislocated	1	1	1	1	1	4	.661
Ankles injured	2	4	1	1	3	11	1.826
Arms broken	4	4	2	8	10	28	4.628
Arms injured	2	2	7	7	11	11	1.826
Backs injured	33	4	7	12	6	62	10.250
Bodies injured	14	13	4	13	18	63	10.413
Burns	13	4	2	12	16	47	7.77
Collar bone broken	5	2	3	2	2	12	1.988
Eyes injured	4	1	2	2	2	9	1.49
Face injured	2	2	2	2	2	9	.33
Feet injured	16	8	6	13	13	43	7.106
Fingers amputated	2	2	2	3	4	5	.826
Fingers injured	26	5	1	8	4	44	7.27
Hands injured	21	7	3	7	4	42	6.94
Head injured	6	3	3	10	3	25	4.13
Head and back injured	2	2	2	1	3	3	.496
Hip and leg broken	2	2	2	2	2	3	.496
Hips injured	6	1	1	2	2	11	1.826
Knees injured	2	3	1	2	2	10	1.65
Hernia	1	1	1	1	1	1	.165
Internal injuries	1	1	1	1	1	1	.165
Legs broken	14	9	6	9	19	57	9.42
Legs injured	19	5	4	7	2	37	6.11
Legs amputated	1	1	1	1	1	2	.33
Nose injured	1	1	1	1	1	2	.33
Neck injured	1	1	1	1	1	2	.33
Ribs broken	3	3	2	1	3	12	1.988
Shoulders dislocated	1	1	1	1	1	3	.496
Shoulders injured	4	6	4	4	14	14	2.31
Skull fractured	1	1	1	1	1	1	.165
Side injured	4	1	1	1	1	4	.661
Thigh injured	2	1	1	1	1	4	.661
Thumbs injured	2	1	1	1	1	2	.33
Toes broken	1	1	1	3	5	5	.826
Toes injured	5	2	3	5	1	16	2.64
Wrists broken	1	1	1	1	1	5	.826
Wrists injured	1	1	1	1	1	5	.826
Wrists dislocated	1	1	1	1	1	5	.826
Totals	214	93	59	139	100	605	100

In the following table, which indicates the manner in which these accidents occurred, it will be seen that, as in the case of fatal accidents, by far the greater part were caused by falling roof and sides, and emphasizes this source of danger:

TABLE LXXIV—*Non-fatal accidents—by causes.*

CAUSES.	Totals.	First District.	Second District.	Third District.	Fourth District.	Fifth District.	Perce't-ages.
Blast explosions.....	7	2	1	.....	.....	4	1.15
Buzz-saw, piston-rod, tippie, etc.	8	.....	1	1	.....	1	.50
Burned by shot.....	4	.....	4	.....	.....	.....	.66
Cable, fly-wheel, trucks, etc., ..	4	.....	1	.....	1	2	.66
Cages, elevator chain, etc.....	5	.....	1	2	2	.....	.83
Coal, etc., falling down shaft.....	4	1	1	.....	1	1	.66
Falling coal and rock.....	388	164	44	88	55	37	55.87
Falling in and about mines.....	9	1	6	1	1	.....	1.49
Falling timbers, etc., in mines..	11	1	4	1	5	.....	1.33
Flying coal, etc.....	17	2	6	3	4	2	2.81
Gas explosions.....	9	8	.....	.....	.....	1	1.49
Injured by mules.....	6	.....	.....	.....	2	4	.99
Lifting and loading cars.....	7	4	.....	.....	2	1	1.15
Mining machine, pinch-bar, etc., ..	3	.....	2	.....	1	.....	.50
Pick, adze, etc., in mine.....	7	2	1	1	3	.....	1.15
Pit cars.....	89	19	15	8	31	16	14.71
Powder explosions.....	17	2	1	3	8	3	2.81
Railroad cars.....	12	3	1	.....	4	4	1.98
Returning to shot.....	2	.....	.....	.....	2	.....	.33
Shot blowing through pillar.....	6	.....	.....	.....	4	2	.99
Shot blowing out.....	12	1	.....	.....	.....	11	1.98
Shot by weighman.....	1	.....	1	.....	.....	.....	.17
Steam.....	3	1	1	.....	1	.....	.50
Tail chain, etc.....	2	.....	2	.....	.....	.....	.33
Not reported.....	27	3	.....	1	12	11	4.46
Totals.....	605	214	93	59	139	100	100.00

The two following tables give the number and percentages of non-fatal casualties resulting from falling roof and sides as compared with those from all other causes during a period of 13 years:

TABLE LXXV.—*Total number of non-fatal accidents, and the number injured by falling roof and sides and by other causes—13 years—by Districts and for the State.*

YEARS.	FIRST DISTRICT.			SECOND DISTRICT.			THIRD DISTRICT.			FOURTH DISTRICT.			FIFTH DISTRICT.			THE STATE.		
	INJURED.			INJURED.			INJURED.			INJURED.			INJURED.			INJURED.		
	Total.	By falling rock and coal.	By other causes.	Total.	By falling rock and coal.	By other causes.	Total.	By falling rock and coal.	By other causes.	Total.	By falling rock and coal.	By other causes.	Total.	By falling rock and coal.	By other causes.	Total.	By falling rock and coal.	By other causes.
1883.....	49	36	13	21	12	9	59	42	17	47	26	21	56	17	39	231	133	98
1884.....	57	41	16	19	14	5	42	29	13	33	24	9	46	27	19	197	135	62
1885.....	31	20	11	31	19	12	25	16	9	27	28	9	52	35	17	176	118	58
1886.....	31	24	7	21	11	10	32	17	15	33	18	15	54	39	15	171	109	62
1887.....	36	27	9	26	24	2	40	26	14	40	24	16	38	23	15	180	124	56
1888.....	58	43	15	34	27	7	40	20	20	18	8	10	29	14	15	179	112	67
1889.....	54	40	14	29	21	8	29	17	12	24	11	13	65	40	25	201	129	73
1890.....	75	59	16	39	24	15	35	21	14	71	39	32	74	53	21	294	196	98
1891.....	86	62	24	58	33	25	41	27	14	77	45	32	105	60	45	367	227	140
1892.....	115	92	23	54	36	18	45	23	22	85	45	40	71	38	33	370	234	136
1893.....	146	121	25	72	41	31	51	21	30	67	37	30	67	34	32	403	254	149
1894.....	181	137	44	49	15	34	52	22	30	111	65	46	128	55	73	521	294	227
1895.....	214	164	50	93	44	49	59	38	21	139	55	84	100	37	63	605	398	267
Totals...	1133	866	267	546	321	225	550	319	231	782	425	357	885	472	412	3895	2403	1492

TABLE LXXVI.—*Total number non-fatal accidents, and the percentages caused by falling roof and sides—for 13 years—by Districts and for the State.*

YEARS.	FIRST DISTRICT.		SECOND DISTRICT.		THIRD DISTRICT.		FOURTH DISTRICT.		FIFTH DISTRICT.		THE STATE.	
	Total	Per cent.	Total	Per cent.	Total	Per cent.	Total	Per cent.	Total	Per cent.	Total	Per cent.
1883.....	49	78.5	21	57.1	59	71.2	47	55.3	56	60.4	231	57.3
1884.....	57	72	19	73.7	42	69	33	72.7	46	58.7	197	68.5
1885.....	31	64.5	31	61.3	25	64	37	75.9	52	67.3	176	67
1886.....	31	77.4	21	50	32	58.6	33	54.5	54	72.2	171	64.5
1887.....	36	75	26	92.3	40	69	40	60	38	60.5	180	68.9
1888.....	58	74.1	34	79.4	40	65	18	44.4	29	48.3	179	62.6
1889.....	54	74.1	29	72.4	29	58.6	24	45.8	65	61.5	201	64.2
1890.....	75	68.7	39	61.5	35	60	71	55	74	71.6	294	66.7
1891.....	86	72.1	58	56.9	41	66	77	58.4	105	57.1	367	61.9
1892.....	115	80	54	66.6	45	51.1	85	53	71	56.5	370	63.2
1893.....	146	82.9	72	56.9	51	41.2	67	55.2	67	52.2	403	63.3
1894.....	181	77.8	49	30.6	52	42.3	111	58.6	128	54.5	521	60.1
1895.....	214	76.6	93	47.3	59	64.4	139	39.6	100	37.0	605	55.9
Totals.....	1,133	76.4	546	58.8	550	58	782	54.3	885	55.3	3,895	61.7
Per cents.....		76.4		58.8		58		54.3		55.3		61.7

Table LXXVII gives a summary for the State of all casual-
for a period of 13 years.

TABLE LXXVII.—*Summary; fatal and non-fatal accidents,
with per cent. caused by falling rock and coal—13 years.*

YEARS.	CASUALTIES—ALL KINDS.			PERCENTAGE CAUSED BY FALLING ROCK AND COAL.		
	Number killed.	Number injured.	Total.	Killed.	Injured.	Total.
1888	134	231	365	31.4	57.3	48.1
1889	46	197	243	56.5	65.5	66.3
1890	39	176	215	51.3	67	64.2
1891	52	171	223	61.5	64.5	63.8
1892	41	180	221	66.3	68.9	68.8
1893	55	179	234	80	62.6	61.9
1894	42	201	243	62	64.2	63.8
1895	53	224	277	67.9	66.7	66.9
1896	60	267	327	55	61.9	60.9
1897	57	370	427	49.1	63.2	61.4
1898	69	408	472	69.6	63.3	64
1899	72	521	593	59.7	60.1	56.8
1900	75	605	680	50.67	55.9	55.3
Totals	795	3,895	4,690	54.59	61.7	60.5

PHYSICAL CHARACTER OF MINES.

Detailed information concerning the physical characteristics,
the methods of working and power used in the coal mines of
the State, will be found in the following tables:

TABLE LXXVIII.—*Methods of reaching and getting out coal—
four years.*

YEARS.	Total number of mines.	KIND OF OPENINGS.			KINDS OF POWER USED.			METHODS OF WORKING.	
		Shaft.	Slope.	Drift.	Steam.	Horse.	Hand.	Long- Wall.	Pillar and Room.
1887	808	460	94	254	283	295	230	46	762
1898	753	466	88	199	313	287	153	46	707
1894	811	498	82	236	332	335	154	55	756
1895	844	503	115	225	348	227	267	51	777

TABLE LXXIX—*Methods of reaching, working and hauling out coal, also kind of power used—by Districts—1895.*

DISTRICTS.	Number of mines.	KINDS OF OPENINGS.			KINDS OF POWER USED.			HAND OR MACHINE MINE.		METHODS OF WORKING COAL.			SYSTEM OF UNDERGROUND HAULAGE.	
		Drift.	Slope.	Shaft.	Steam.	Horse.	Hand.	Hand.	Machine.	Long-Wall.	Pillar and Room.		Hand.	Mules.
										Undercut.	Undercut.	Blasted from the Solid.		
First	*82	3	6	72	43	34	3	79	.....	28	47	5	38	35
Second	†239	75	35	129	50	108	81	239	.....	10	185	42	212	26
Third	‡258	119	51	88	74	60	124	252	2	8	82	162	124	118
Fourth	§118	17	9	92	68	20	30	100	17	4	64	48	38	70
Fifth .....	||147	10	14	123	114	5	28	138	7	1	49	93	5	141
The State.	1844	224	115	504	349	237	266	808	26	51	427	350	417	390

* Three mines operated both by hand and machine; two mines coal is both undercut and blasted from solid; one mine uses endless rope, one the electric system, and seven do not report system of underground haulage; one mine does not report whether drift, slope or shaft, and two mines do not report kind of power used.

† Two mines reported as both long wall and pillar and room, blasted from solid; one mine uses steam power for underground haulage; seven surface mines in this district not included.

‡ Two mines do not report what system of underground haulage is used; one mine uses endless rope; thirteen use tall rope; four are both hand and machine mines; five are both undercut and blasted from the solid; four surface mines not included.

§ One mine operated both by hand and machine; four mines use endless rope, one mine uses tall rope, and five mines do not report system of underground haulage; two mines both undercut and blasted from solid; sixteen mines in this district not included.

|| One mine uses rope and mules for underground haulage; two mines are operated both by hand and machine; two mines coal is both undercut and blasted from solid, and two do not report whether coal is undercut or blasted from solid; three surface mines in this district not included.

! Thirty mines in State not included.

In connection with the foregoing tables the following, giving the different systems of ventilation used, the number of mines using and the number of men working under the various systems, will conclude the consideration of this phase of the subject.

TABLE LXXX—*Use of the different systems of ventilation—1895—by Districts. The average number of men employed under each system.*

DISTRICTS.	Total number of mines.	SYSTEM OF VENTILATION.							
		FAN.		FURNACE.		STEAM JET.		NATURAL.	
		Number of mines.	Average number men.	Number of mines.	Average number men.	Number of mines.	Average number men.	Number of mines.	Average number men.
First	*82	36	253	18	10	12	24	8	5
Second	†246	33	168	64	12	17	16	125	5
Third	‡262	59	87	140	10	1	7	57	3
Fourth	§119	73	106	2	20	1	20	26	4
Fifth	**150	90	65	32	32	1	4	10	8
The State.....	††859	291	114	256	13	33	19	225	4
1894.....	822	296	118	176	15	21	29	301	5
1898.....	746	266	106	189	16	20	24	251	6
1897.....	798	176	81	286	63	27	21	304	4

* Eight mines not reported.

† Two mines not reported; seven surface mines reported and counted as one.

‡ Five mines not reported.

§ Seventeen mines not reported; fifteen mines in Effingham, Jasper, Jersey, Morgan, Pike and Richland counties not included.

** Eleven mines not reported; one mine uses both fan and furnaces.

†† Forty-three mines not reported.

TABLE LXXXI.—*The different systems of ventilation, with the highest number of men employed under each—1895—by Districts.*

DISTRICTS.	Total number of mines.	SYSTEM OF VENTILATION.							
		FAN.		FURNACE.		STEAM JET.		NATURAL.	
		Number of mines.	Number of men employed.	Number of mines.	Number of men employed.	Number of mines.	Number of men employed.	Number of mines.	Number of men employed.
First.....	*83	36	9,091	18	178	12	293	8	39
Second.....	+946	53	5,543	64	786	17	277	124	623
Third.....	‡363	59	5,112	140	1,868	1	7	57	172
Fourth.....	\$119	73	7,738†	3	89	1	30	26	96
Fifth.....	**180	90	5,898	32	1,043	1	4	10	84
The State.....	††859	291	33,578	356	3,354	33	601	225	1,013
1894.....	823	296	33,470	176	2,690	21	599	301	1,570
1893.....	758	286	30,351	189	2,980	20	485	251	1,423

* Eight mines not reported.

† Two mines not reported; 7 surface mines reported and counted as one.

‡ Five mines not reported.

\$ Seventeen mines not reported; 15 mines in Effingham, Jasper, Jersey, Morgan, Pike and Richland counties not included.

** Eleven mines not reported: 1 mine employs both fan and furnace.

†† Forty-three mines not reported.

TABLE LXXXII.—*Final summary, showing number, character, increase and acreage of Illinois collieries, with number of employes, working time and casualties, for the year ending July 1, 1895—by Districts.*

DISTRICTS.	MINES.							MINERS.				Average number of running days.	Number of kegs of powder used.	CASUALTIES.			
	Number of counties.	Number of mines.	Number of shipping mines.	Number of mines in local trade.	Number of new mines.	Number of abandoned mines.	Estimated number of acres worked out during year.	Average number of miners employed.	Highest number of miners employed.	Number of other employes.	Number of boys under ground.			Number of killed.	Number of widows.	Number of children.	Number of injured.
First.....	5	82	33	49	15	6	555	6,317	7,907	1,737	197	†163	9,338	16	8	30	214
Second.....	11	246	34	212	40	41	438.33	4,605	5,940	1,244	73	†151	83,241	12	6	17	93
Third.....	9	262	79	183	26	15	571.49	3,561	5,302	1,405	165	161	75,048	16	10	23	59
Fourth.....	17	134	67	67	12	8	738.12	4,981	6,525	1,480	305	†156	96,562	15	8	24	139
Fifth.....	12	150	106	44	16	8	657.75	5,883	5,941	1,249	171	‡177	110,699	16	10	27	100
Totals.....	54	874	*319	555	115	78	2,950.69	.....	31,515	7,115	c811	.....	324,888	75	42	111	605
Averages...	.....	.....	.....	.....	.....	.....	.....	34,847	.....	.....	.....	1161	.....	.....	.....	.....	.....

* Includes one mine abandoned during the year.

† Three mines omitted in estimating averages.

‡ Eight mines omitted in estimating averages.

¶ Eighteen mines omitted in estimating averages.

§ Five mines omitted in estimating averages.

| Average based on 840 mines.

c Number of boys included in number of other employes.

TABLE LXXXIII.—*Final summary, showing product, price and average and aggregate value.*

DISTRICTS.	Average price paid per ton for mining screened coal.	PRODUCT.			AVERAGE VALUE OF COAL PER TON AT THE MINES.		AGGREGATE HOME VALUE OF TOTAL PRODUCT.		
		Total tons of coal mined.	Total tons of lump coal (3,000 pounds.)	Total tons of other grades of coal.	Sc'n'd coal.	Other grades of coal.	Value of total product.	Value of lump or screened coal.	Value of other grades of coal.
First.....	\$0.7873	2,735,711	2,294,063	441,648	\$1.205	\$0.3483	\$2,917,695	\$2,763,861	\$153,834
Second.....	0.794	1,995,298	1,673,056	322,242	1.302	0.406	2,309,165	2,178,292	130,873
Third.....	0.642	2,952,280	2,543,517	408,743	0.946	0.361	2,554,679	2,407,319	147,360
Fourth...	0.3635	5,612,764	4,154,538	*1,080,011	0.765	0.303	3,490,849	3,177,779	313,070
Fifth.....	0.3571	4,439,831	3,830,738	1,059,043	0.761	0.373	2,967,269	2,571,674	395,595
Totals...	.....	17,735,864	14,045,963	3,261,687	.....	.....	\$14,239,157	\$13,098,925	\$1,140,232
Averages	†0.5729	.....	.....	.....	\$0.932	\$0.349	.....	.....	.....

* 423,215 tons not included—no price given.

† Based on 7,868,006 tons of coal, being total tons mined by hand and paid for by the ton after screening: In the First district, 1,874,650 tons; Second district, 1,360,802; Third district, 947,225 tons; Fourth district, 1,769,834 tons; Fifth district, 1,915,495 tons.

‡ Average value of total product, per ton, \$0.8023.



FIRST INSPECTION DISTRICT--1895.

MR. GEORGE A. SCHILLING,

Secretary of the Bureau of Labor Statistics, Springfield, Illinois:

SIR:—I herewith submit the twelfth annual report for the First District, as is required by section 12 of the mining law.

The report contains a tabulated statement, by counties, of the number of mines that are in operation in the district; the number of shipping mines; the number of mines in the local trade; number of new and abandoned mines; estimated number of acres of coal worked out during the year; the total product of each mine; the number of tons of lump, nut and other grades of coal; average value of lump coal at the mine; average value of other grades of coal at the mine; aggregate value of total product; casualties; number of accidents, fatal and non-fatal, that have happened in and around the mines; the number of wives made widows, and the number of dependent children made orphans; average number of miners employed during the year; highest number of miners employed in any one month during the year; number of other employés in and around the mines; number of boys under 16 employed in the mines; the number of tons of coal mined by machine; the number and kind of machines in use; the number of men employed in running and handling the coal mined by the same; the depth of shafts and thickness of the seam, the geological number of each vein; the kind of ventilation at each mine; the capacity of the ventilator, together with other matters of interest pertaining to the mines.

The following summaries are given:

Total number of mines.....	81
Shipping mines.....	33
Local mines.....	48
New mines.....	15
Abandoned mines.....	6
Estimated number of acres worked out during the year.....	555
Average number of miners employed during the year.....	6,817
Highest number of miners employed during the year.....	7,907
Number of boys employed in the mines.....	197
Number of other employés in and about the mines.....	1,787
Total number of employés.....	9,644
Number employed under ground.....	9,080
Number employed above ground.....	564
Number of kegs of powder used.....	9,335
Number of fatal accidents.....	16
Number of non-fatal accidents.....	214
Number of wives made widows.....	8
Number of children left fatherless.....	20
Average price per ton paid for hand-mining in summer.....	\$0.7481
Average price per ton paid for hand-mining in winter.....	\$0.8122
Total number of tons produced in the district.....	2,785,710.9
Total number of tons of lump coal produced in the district.....	2,325,174.9
Total number of other grades of coal produced in the district.....	460,536
Average value of lump coal per ton at the mine.....	\$3.15
Average value of other grades per ton at the mine.....	\$2.12
Number of mining machines in use in the district.....	88
Number of tons produced by machines.....	12,340
Number of men employed in running machines.....	
Number of tons produced for each fatal accident.....	
Number of tons produced for each non-fatal accident.....	

Comparative table of total products of lump and other grades of coal for years ending July 1, 1894 and 1895:

COUNTIES.	1894. All grades, tons.	1895. All grades, tons.	Increase, tons.	Decrease, tons.
Grundy	1,180,420	1,261,888	181,418	.....
Kankakee	57,888	88,513	30,680	.....
LaSalle	1,184,097	1,084,552	.....	49,545
Livingston	842,127	867,188	.....	74,994
Will	20,717	88,676	17,968	.....
Totals	2,685,244	2,735,711	175,006	194,539
Net increase .....	.....	.....	50,467	.....

Comparative table of total product of lump coal for years ending July 1, 1894 and 1895:

COUNTIES.	1894. Lump.	1895. Lump.	Increase.	Decrease.
Grundy	1,052,288	1,126,810	74,577	.....
Kankakee	50,888	54,658	3,775	.....
LaSalle	968,344	895,269	.....	143,975
Livingston	276,654	188,468	.....	88,181
Will	19,285	82,975	13,690	.....
Totals	2,367,399	2,328,175	22,042	231,195
Net decrease .....	.....	.....	.....	139,194

Comparative table of product of other grades of coal for years ending July 1, 1894 and 1895.

COUNTIES.	1894. Other grades, tons.	1895. Other grades, tons.	Increase, tons.	Decrease, tons.
Grundy	78,187	135,038	56,841	.....
Kankakee	7,000	28,855	21,855	.....
LaSalle	165,854	259,288	93,439	.....
Livingston	65,478	78,670	13,197	.....
Will	1,482	5,700	4,268	.....
Totals	317,946	507,586	189,590	.....

New Mines.—In Grundy county four new mines have been opened, all of them local mines; they are operated by Griffith & Wren, William Woods and J. D. Meagher, in the vicinity of Morris & Dominick Galo about five miles southeast of Morris. All of them are gin shafts.

In Livingston county R. Delgenio has reopened the old Pontiac mine to the upper vein. A shaft tower has been erected preparatory to shipping coal; some coal has been taken from the mine, but at present it is shut down, except for the purpose of taking out the water. It will be operated by John Henry who has a lease of the property.

Joseph Kilburn has reopened his mine near the Anderson and Barr Brick Works, south of Streator, and most of the product is being used by that firm.

Harry Smoek has opened a shaft south of Streator by the side of the Vermilion river.

In LaSalle county six new openings have been made, all of them small local mines. They are Jack McNeil, near Heunnan Park and Hudson & Stubbs, William Penman, John Castetter, Alloway & Heinz and Stearo & Eccleson, all of Streator.

Prospective Mines.—The C., W. & V. C. Co. have just sunk a shaft a little east of the Pekin shaft. They have 6 feet, 3 inches of coal and the prospects are good for a splendid mine.

Barr & Roberts have sunk a prospective shaft on the Benekindorf farm, north of Streator, and will drive entries in the coal to prove it, and if satisfactory will sink another shaft and use the present one for an air shaft. The vein is only about 3½ feet.

Abandoned Mines.—In Grundy county the C. W. & V. have abandoned the "O" shaft at Braidwood.

The Big Four Co. has abandoned their No. 1 mine at Coal City.

In Kankakee county the Gar. Wil. Co. has abandoned their No. 1 mine at Clark City.

In LaSalle county, Conqueitur & Co., have abandoned their mine at Streator.

In Livingston county, R. Evans has abandoned his Coalville mine near Streator. John Marshall has abandoned the mine that he sunk during the year, making it both a new and an abandoned mine.

Improvements.—At Carbon Hill the Star Coal Company has put in self-dumping cages at their No. 1 and No. 2 mines of a pattern designed by Mr. Kelly, the superintendent of the works. Their construction is simple, being simply a platform fixed on rockers; a catch is fixed at the top that catches the front of the rocker and tips the car forward and dumps the coal. A pair of new engines 14x24 geared have been put in the No. 2 mine which furnishes ample power for hoisting the coal.

The Gardner Wilmington Company has put in self-dumping cages at their Gardner mine. They are of the Russell & Parsons patent; they have also fitted their engines with double cone drums.

In Kankakee county the same company has added two more boilers to their plant, and has put in a fifteen-foot fan.

In LaSalle county the Oglesby Company put stairs in the slope part of the escapement. They have also put in a new pair of large engines 18x30 on the first motion.

Nelson Plumb has put in a new 15-foot Coles fan at the Pekin mine, it will be of much benefit to the miners.

The Star Coal Company has sunk an air shaft at the face of the workings of their No. 2 mine at Kangley that greatly improves the ventilation of the mine.

Fires.—On August 10, 1894, a destructive fire broke out in the fan house of Kangley No. 2 mine belonging to the Star Coal Company. The fire occurred between 4 and 5 o'clock in the afternoon and was first observed by the blacksmith, who saw the flames being thrown out by the fan which was running at a high rate of speed. In a few minutes the fan house, belt-pump and belt-pump engine house were consumed. The blacksmith shop and the hay barn full of hay, and the machine shop all went up in smoke. The wind was blowing from the hoisting shaft which enabled the men to save the shaft tower and engine house by using the hose to a good advantage. The officers of the company promptly attended

to the safety of the men, and all succeeded in getting out of the shaft without accident. One man named William Morris, a teamster, had his legs broken by one of the blades of the fan which was thrown a distance of about 120 feet to where the man was standing when struck. The loss to the company is about \$10,000.

On August 12, 1894, the Gardner shaft tower engine house, boiler house and blacksmith shop were completely destroyed by fire. The fire is supposed to have originated by a spark from the smoke stack lodging in the tower, as that is where the fire was first discovered, and the wind was blowing from the smoke stack to the tower. No one was in the mine at the time, but eleven mules were imprisoned. The top was a complete wreck and a total loss to the company, as there was not a cent of insurance on the property.

The shaft top has been rebuilt and equipped as mentioned under the head of improvements. Commenced hoisting coal again in January.

Accidents.—It seems that some explanation should be given to account for the large number of accidents that are listed from the Diamond Mine and the C., W. & V. Co.'s mines at Braidwood, as they appear to furnish a much greater per cent. of accidents than the other mines in the Wilmington field. At these mines they have accident societies that pay \$5 per week. The books of the society are kept at the company's office and every one who has been injured and is entitled to benefits furnishes a doctor's certificate, or a certificate from the visiting committee of the society, to the secretary of the same, and by so doing a complete tab is kept of all accidents that occur in those mines.

Where there is no accident society, men are very often injured who are never reported to the company, and their partners will keep on loading the full turn as if all of the men were working in the room, and very often the necessities of the injured person compels him to return to work before he is able to do so, while, on the other hand, the benefit of the society is an inducement for the injured person to stay at home until he has fully recovered from his injuries. In proof of this, I will call attention to the fact that the time lost by any one at these mines on account of injury is divisible by seven, showing that they always finish the week to get their allowance. I think the society is a good thing and furnishes the best method of getting a complete list of the accidents that occur in the mines.

The tendency of accidents to be on the increase is principally due to two things. Perhaps the most important is the fact that the miners, as a class, are becoming less and less efficient, owing to the large number of inexperienced men that are being employed all over the coal fields, many of whom do not know when a place is dangerous or safe.

Another cause is, that in many large mines the prime object is to secure the largest possible output, and in the hurry and bustle incident to that effort, the safety of the men becomes a minor consideration. Thus it often happens that when coal has been hoisted rapidly for some time, and the cager begins to ring three bells for men to go up, upon the first of the three being rung, the cage is plucked away by the engineer and taken up as far as the door heads before he discovers his mistake. This is very dangerous, and should be guarded against by all engineers as much

as possible. It only requires the fraction of a second to find out if more than one bell is to be given, and the small loss of time to the company should not be considered when put in the balance with a human life.

Needed Legislation.—There should be a law to govern mines generating fire-damp where the use of safety lamps are necessary for the safety of the employes. Most of the accidents due to explosions in this district could have been prevented if we had laws in this State such as are in force in Pennsylvania or in England. I therefore recommend the passage of such a law.

Prosecutions.—Benjamin Roberts, mine boss at Spring Hill, was arrested for persisting in acting as mine boss without a certificate of competency. Also John Roberts, one of the owners of the mine, who informed me that they intended to fight the law, but upon the former resigning the case was dropped.

Nelson Plumb, of the Pekin mine, was indicted before the grand jury at Ottawa for refusing to allow Wm. LaCost to act as check-weighman at his shaft, after being duly elected by the men to that office. The case is still pending.

The Gardner-Wilmington Company was prosecuted and fined fifty dollars and costs for not having the mine examined in the morning before the men went to work, resulting in two men getting burned. This was the fault of Ludwig Swansburg (the mine boss) who had been instructed by myself and by the superintendent of the company to have a special examination for accumulation of gas, as the mine was somewhat out of order just after the strike.

The Big Four Company was prosecuted and fined fifty dollars and costs for not having a sump carefully planked over as required by law. A man was found dead in the same, but how he came there is a mystery.

Fatal Accidents.—August 23, 1894, John Andrews, miner, aged 45 years, in the C. C. C. No. 1 mine at Oglesby, met his death by a fall of rock at the face of his room. He was wedging down some coal in front of his road when the stone, which was relieved by a slip in the roof, fell on him causing his death. At the inquest it was shown that his place was insufficiently propped, although he had plenty of props at hand. He leaves a widow and seven children living at LaSalle, all of them dependents.

September 8, 1894, at Oglesby mine, John Vetona, miner, aged 23 years and single, was instantly killed by a fall of rock at the face of his room. The accident was caused by a slip in the rock running parallel with the face of the coal and close up to it, and sloping upwards and back to a break about two feet from the face, thus relieving the stone, which to all appearance was safe. The rock fell on him just as he had entered his room to begin work in the morning. His place seemed to be well secured and propped, and the accident seems to have been unavoidable.

September 22, at the Star Coal Company No. 2 mine, Kangley, John Kroker, miner, aged about 45 years and married, was fatally injured by a shot firing on him, and died in about an hour afterward. He and his partner had charged two holes with powder, one in the entry and the other in the crosscut, and lit them both at once; the one in the crosscut went off first, and he, supposing that the other had missed, and without giving it sufficient time, went back to the entry with another squib.

Just as he reached the face, the shot fired, wounding him fatally in the head and side. He leaves a widow and four children, two of whom are still in Austria, his native country.

On Sunday evening, September 30, 1894, at the Big Four Company's No. 2 mine, Coal City, Oscar Queker, a lad of sixteen years, was instantly killed by a fall of rock. He and his step-father, Ernest Klein, were working together making a mule stable near the bottom of the shaft. This was being done by taking a skip off the pillar alongside of a cross entry where the slate had been brushed four feet high above the coal. The coal had been taken out and the slate had been supported by props in order to make it safe; they had just commenced to take down the stone, and instead of doing this work in a safe manner they removed the props supporting the stone alongside of the entry, and then proceeded to cut the stone on the rib. The boy was inside cutting to meet his step-father, who was cutting from the outside. The fire-boss, James McCullough, saw the boy at work under the stone and warned them of the danger, telling them to set props to secure themselves, and they laughed at him and said it was all right, but shortly afterward a block of stone weighing about four tons fell on the boy, causing instant death. This accident may be attributed to gross carelessness or incompetency on the part of the boy's step-father.

On the morning of December 4, 1894, in the Spring Hill coal mine, Reese Price, miner, 50 years of age and a married man, was injured by an explosion of gas while on his way to his room and died a few hours afterwards.

The explosion was caused by the using of a naked light by Joe Bowan, a white man, or William Hamilton, a colored man, who worked together in room No. 9. The one blames the other for firing the gas; they were both badly burned by the explosion.

Mr. Price was not burned at all, but was thrown down by the force of the explosion and was hurt across the back in the region of the kidneys and in the right breast. The external appearance of his injuries was a contusion in the region of the kidneys, where he complained of the pain; there was also a slight abrasion of the skin on the back part of the head. Dr. Findlay, the physician who attended him, thought that the shock from the explosion and the exposure to which he was subjected on his way home contributed a good deal towards his death. He leaves a widow and six children, three of whom are married and three left dependent.

On December 30, 1894, Joseph Bowan, one of the men who was burned in the explosion at Spring Hill mine on the 4th of December, died from the result of his injuries. He was about 50 years of age and lived alone, his wife having left him about three years before.

In "P" shaft, Braidwood, December 17, 1894, Giovanna Battisto Cain was fatally burned by powder so that he died seven days afterwards.

Upon investigation it was found that in charging a hole on the road-head the cartridge burst and a quantity of the powder was spilled in front of the shot. The cartridge was taken back to where they had their powder and again more powder was spilled in making it over. When the shot was fired the spilled powder was ignited, exploding what was in the keg and burning Mr. Cain and his partner, John Bravin, severely. The deceased was a single man, 22 years of age, and had no relatives in this country.

December 19, 1894, at Braceville No. 4 shaft, Thomas R. Hughes, a miner, 47 years of age, was fatally injured by a fall of rock on his own road, about thirty feet back from the face. His partner, Wm. Dobbs, was doing some back brushing and loading it into pit cars on his turn. He called Mr. Hughes to help him get enough rock down to load the car so that they would not lose their turn. Mr. Hughes came from the face where he was working to Mr. Dobbs' assistance, and, taking a pick, commenced pulling down some loose rock about four feet inside of the stone that Mr. Dobbs had been cutting and sledging. As he was prying the loose stones down with his pick, he stepped back to be out of the way of the falling stone, and got directly under the rock that Mr. Dobbs had been at work upon, which fell at the same moment, knocking him down and crushing him terribly across the small of the back. He lingered for about three days and finally died of his injuries. Mr. Hughes was a married man and leaves a widow and a grandchild who were dependent upon him.

On February 7, 1895, at Clarke City No. 2 shaft, belonging to the Gardner Wilmington Coal Co., James Bell, cager, a single man, aged 49, was caught with the cage and instantly killed.

It appears from the evidence of those present that the cage had been belled away with a loaded car and hoisted partly up the shaft, but in answer to a signal from the top-man the engineer returned the loaded car to the bottom and the empty to the top in order that the top-man might remove the check from the empty, which he failed to accomplish while the car was being dumped.

On the return of the loaded car to the bottom, without signalling to the engineer to let the cage remain on the bottom, Mr. Bell and a new man, named Henry Facun, proceeded to remove the loaded car from the cage, Mr. Facun pulling by the ring on the car on one side, and Mr. Bell pushing on the other. When the car was partly off the engineer proceeded to hoist, tipping the car on the bottom and taking Mr. Bell away on the cage, catching him at lip of shaft, and doubling him forward on the cage, crushing his breast in, as the cage ascended, his shoulders rubbed against the side of the shaft. A signal was given in time to stop the cage at the lower landing, where the body fell outwards from the cage.

The accident is due to the neglect of deceased to give the signal to the engineer to rest the cage while he was removing the car.

At Oglesby mine on March 6, Arthur Johnston, a lad of about 17 years of age and a miner was killed by a fall of coal while passing along the working face to return a wedge which he had borrowed from two men who worked in the second room from where he and his father worked together. While passing in front of a loose piece of coal in the men's room from whom he had borrowed the wedge, the coal fell over and caught his head between the falling coal and a prop that was set in front of it, fracturing his skull. He died before he could be gotten to the top of the shaft.

March 28, 1895, at the Big Four Company's No. 2 mine, Coal Branch Junction, Joe Geinero, an Italian miner about 24 years of age and a single man, was found dead in the sump at the bottom of the shaft, but how he came to his death is not known. The shaft had run but a half day,

quitting at noon. About 1:30 p. m., the deceased went down the shaft with Jack Strickland, the mule boss, to look for work. Strickland directed him where to find the mine boss, and also showed him the way to the escapement shaft. Mr. Strickland left him near the bottom of the shaft and went inside to attend to his work. Nothing more is known of Geinero until he was found by two men who were looking for a lamp that some one let fall in the sump in the morning. They were surprised to find the dead body of a man in the sump which is about eight feet deep.

The coroner's jury returned a verdict of accidental death.

April 11, 1895, at the Star Coal Company's No. 2 mine, at Kangle, John Galetta, a Polish miner aged 33 years, and a single man lost his life by a shot fired by himself. It appears from the evidence of the man working next place to him, that he had helped him tamp the hole preparatory to firing the shot, but it was not yet time to light it, as the firing must be done at noon. In about ten minutes he heard the blast go off and heard the man scream. His opinion was that Galetta had lit the shot and gone back to it thinking it had missed fire, and the blast went off while he was in front of it, killing him instantly. The same witness testified that the deceased had not mined more than four months and that he himself had taught him. Mr. Talman, the mine manager, testified that when he hired him he professed to be an experienced miner, or he would not have given him a job. His death may be attributed to a lack of experience in blasting.

On April 15, 1895, at the C. W. & V. Coal Company's No. 3 shaft, Streator, Illinois, Henry Melcher, miner, aged 28, married, was instantly killed by a fall of coal. He was working with a man named John Colenberger, and they had taken the bottom coal from under the tops, and a cut of coal twelve feet long and three and one-half feet under cut on both sides was left hanging for four days. The deceased went under again to mine without setting props to the top coal as is generally done. His partner told him it was dangerous to go under it without having props set, but he mined away for some time, and then both retired from the face to eat a lunch. After lunch Mr. Colenberger said he would get the props to set under the coal, that the coal was cracking as if about to fall. The deceased said he would go in and get his pick which he had left where he was mining. Colenberger told him not to, but he went and just as he put his hand on the pick handle the mass of coal fell on him, nearly severing his head from his body and otherwise mangling him. He left a widow and one child.

On May 3, 1895, at Braceville Coal Company's No. 4 mine, William Scurrah, miner, aged 47, was fatally injured by a fall of rock while he was brushing on his road about 30 yards from the face. He had been wedging down a piece of stone off the side of his road and was stooping down to pick up a wedge when a rock weighing over half a ton fell on him, crushing him along his back, making a number of contusions. The doctor said he thought some blood vessel had been broken, and that caused his death. He lived about eight hours after the accident. He leaves a widow and one boy, about 14 years of age, who is a cripple.

The stone was supposed to be good, so his partners testified, and probably in wedging down the piece of stone he had loosened the one that fell on him.

May 14, 1894, at the C. W. & V. Coal Company's "P" shaft, Braidwood, Patrick Cushing, miner, 49 years of age, was caught between the cage and the side of the shaft and instantly killed.

It was supposedly an idle day although a few places were working, cleaning and fixing up, as is usually the case in long wall workings of this section.

William Pelton was caging some coal, when Patrick Cushing, Garrett Cushing and Garrett's son, came to the bottom to go up. The cager told them he would let them up as soon as he caged another car of coal. The car was caged and Mr. Pelton went over to the other side of the shaft to push up the empties that had accumulated there while he was caging above. Meanwhile, the other empty cage came down and he called to Garrett to bell them away. He proceeded to bell three and at the same time his brother Patrick was pushing off the empty that was on the cage. At the first of the three bells intended to be given, the engineer pulled away the cage, throwing the deceased on the bottom of it with his breast over the edge, and as the cage ascended, he was caught at the door-head between the cage and side of the shaft and taken up quite a distance, his head downward. The space between the cage and the wall was only three inches. He was quite dead when extricated. The coroner's jury gave a verdict of accidental death. Deceased leaves a widow and four children.

June 4, 1895, at the Acme Shaft, Streator, John Kusnir, miner, aged 34 years, was fatally injured by a fall of rock and died a few hours afterwards. He had just gone in that morning to look for a place and found one that suited him, and was going out again to bring in more tools. When about thirty yards out of the entry a large stone fell on him breaking his back. He was taken home and died the following night. The mine examiner testified to having examined the place about 5:30 that morning and considered it safe. There were two props under the stone, one on each side of the road; there had been a fall just outside of the stone, leaving an opening, the rock broke across the road in a line with the props and fell just as he was passing under. Deceased leaves a widow but no children.

The following tables present the fatal and non-fatal accidents:

Fatal Casualties—First District, 1895.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widow.	Children.	Single.	Dependents.	Cause of Accident.
1894										
Aug. 23	John Andrews.....	45	Miner.....	LaSalle.....	1	1	7	8		Falling rock.....
Sept. 8	John Vetona.....	23	".....	Oglesby.....	1	1	1	1		".....
" 22	John Kroker.....	45	".....	Kangley.....	1	1	4	5		Shot firing.....
" 30	Oscar Queker.....	16	".....	Coal City.....	1	1	1	1		Falling rock.....
Dec. 4	Reese Price.....	50	".....	Streator.....	1	1	8	4		Gas explosion.....
" 4	Joe Bowan.....	50	".....	".....	1	1	1	1		".....
" 17	Giovanni Battisto.....	22	".....	Braidwood.....	1	1	1	1		Powder explosion.....
" 19	Thos. R. Hughes.....	47	".....	Braceville.....	1	1	1	2		Falling rock.....
1895										
Feb. 7	James Bell.....	49	Cager.....	Clark City.....	1	1	1	1		Ascending cage.....
Mar. 6	Arthur Johnston.....	17	Miner.....	Oglesby.....	1	1	1	1		Falling coal.....
" 28	Joe Gelnero.....	34	".....	Coal City.....	1	1	1	1		Found dead in sump.....
April 11	John Galletta.....	33	".....	Kangley.....	1	1	1	1		Going b'k to shot, lit.....
" 15	Henry Melcher.....	25	".....	Streator.....	1	1	1	2		Falling coal.....
May 3	Wm. Scurrah.....	47	".....	Braceville.....	1	1	1	2		Falling rock.....
" 14	Patrick Cushing.....	49	".....	Braidwood.....	1	1	4	5		Ascending cage.....
June 4	John Kusnir.....	34	".....	Streator.....	1	1	1	1		Falling rock.....
			Total—16 ..		9	8	20	7	39	

RECAPITULATION OF FATAL CASUALTIES—FIRST DISTRICT, 1895.

Residence.	No.	Occupation.	No.	Nature of Casualty	No.	Colliery.	No.
Braidwood.....	2	Cager.....	1	Ascending cage.....	2	Acme shaft.....	1
Braceville.....	2	Miner.....	15	Falling coal.....	2	Big 4, No. 2.....	2
Clarke City.....	1			Falling rock.....	6	Braceville, No. 4.....	3
Coal City.....	2			Firing shot.....	1	Clarke City, No. 2.....	1
Kangley.....	2			Gas explosion.....	2	Kangley, No. 2.....	2
LaSalle.....	2			Powder explosion.....	1	LaSalle.....	1
Oglesby.....	2			Returning to shot.....	1	Oglesby.....	2
Streator.....	4			Unknown.....	1	"P" shaft.....	2
						Spring Hill.....	2
						Streator, No. 3.....	1
Totals.....	16		16		16		16

Non-Fatal Casualties—First District—July 1, 1895.

Date.	Name.	Age.	Residence.	Married.	Children.	Single.	Dependents.	Character of Injury and Cause of Accident.	Time lost—days.
1894.									
July 20	George Wanto.....	17	Streator.....	.....	1	.....	.....	Back injured by fall of rock from side of entry.....	40
Aug. 3	Geo. Stewart.....	38	".....	1	1	.....	.....	Foot caught between cars.....	25
" 10	Joe Zemo.....	30	Diamond.....	.....	1	.....	.....	Back and head bruised by pit cars.....	28
" 13	Joe Muldowney.....	18	".....	.....	1	.....	.....	Finger crushed by pit car.....	35
" 13	T. Andrewskevitch..	30	Braceville.....	1	1	.....	.....	Leg broken and shoulder bruised by falling coal.....	150
" 16	Est. Rossio.....	35	Diamond.....	.....	1	.....	.....	Hand hurt by falling rock.....	21
" 17	Bartaletti.....	.....	C'l B'ch Jct.....	.....	1	.....	.....	Hip bruised by falling rock.....	23
" 20	D. Oliver.....	28	Braidwood.....	1	2	.....	.....	Punctured and bruised hand.....	14
" 22	T. Amberger.....	34	LaSalle.....	.....	1	.....	.....	Leg broken by falling rock in room.....	.....
" 25	M. Bräjo.....	40	".....	1	1	.....	.....	Back hurt by falling rock in room.....	70
" 37	Wm. Harrison.....	42	".....	.....	1	.....	.....	Finger bruised by falling rock.....	18
Sept. 1	Joe Hozel.....	40	Diamond.....	1	5	.....	.....	Body bruised by falling coal.....	21
" 1	John Lomaske.....	42	Streator.....	.....	1	.....	.....	Back hurt by falling rock.....	56
" 5	Balthram Venture.....	.....	Clarke City.....	.....	1	.....	.....	Body bruised by falling rock.....	42
" 6	Wm. Currie.....	15	Diamond.....	.....	1	.....	.....	Leg hurt by pit cars.....	42
" 7	John Barnett.....	17	".....	.....	1	.....	.....	Wrist dislocated by pit car.....	42
" 10	John Agassen.....	15	".....	.....	1	.....	.....	Leg bruised and scalp wound by falling rock.....	35
" 11	Mike Hughes.....	60	".....	1	.....	.....	.....	Eye injured.....	14
" 13	Mat. Johnston.....	24	Streator.....	.....	1	.....	.....	Legs bruised, caught between cars.....	56
" 14	M. Arbounce.....	36	Kangley.....	1	2	.....	.....	Foot injured by R. R. car.....	14
" 19	Andrew McGregor.....	33	Braidwood.....	1	3	.....	.....	Pick wound in ankle.....	42
" 19	Wm. Wilson.....	60	Diamond.....	1	4	.....	.....	Toes broken by pit car.....	56
" 21	Pancross Barra.....	27	".....	.....	1	.....	.....	Finger hurt by falling rock.....	14
" 21	John Castetter.....	30	Streator.....	1	1	.....	.....	Leg broken by falling coal.....	36
" 22	Alex. Kilpatrick.....	23	Braidwood.....	.....	1	.....	.....	Bruised hand by falling rock.....	21
" 22	Peter Chere.....	35	".....	1	2	.....	.....	Spine injured by falling rock.....	21
" 24	John Shaw.....	50	Streator.....	1	4	.....	.....	Head hurt by falling rock.....	56
" 24	John Bickiston.....	27	".....	.....	1	.....	.....	Legs caught between pit cars.....	56
" 29	Anton Bollotino.....	29	Braidwood.....	1	1	.....	.....	Hand bruised by falling rock.....	7
Oct. 4	Martin Sardina.....	45	Diamond.....	.....	1	.....	.....	Leg injured by falling rock.....	35
" 5	Walter McFarlane.....	38	Braidwood.....	1	3	.....	.....	Finger bruised by falling rock.....	14
" 6	Joe Terando.....	27	".....	.....	1	.....	.....	Foot injured by falling rock.....	21
" 8	Oscar Fontone.....	30	Clarke City.....	1	2	.....	.....	Crushed between cars, riding on coupling.....	21
" 8	Mike Hearne.....	30	Braidwood.....	.....	1	.....	.....	Hand bruised, falling rock at face.....	21
" 9	John Grolan.....	50	LaSalle.....	1	4	.....	.....	Leg broken by falling coal in room.....	.....
" 12	H. Crumling.....	.....	Carbon Hill.....	.....	1	.....	.....	Back hurt by falling coal in room.....	28
" 16	Dom. Camlo.....	54	Clarke City.....	.....	1	.....	.....	Leg broken.....	.....
" 17	Callo Rolando.....	35	Braidwood.....	1	2	.....	.....	Hand bruised by falling rock at face.....	21
" 17	G. Margaron.....	.....	Carbon Hill.....	.....	1	.....	.....	Arm broken by falling coal.....	56
" 18	Anton Gutofeka.....	31	Braidwood.....	1	2	.....	.....	Leg bruised by falling coal.....	35
" 23	John Davidson.....	37	LaSalle.....	1	1	.....	.....	Side bruised by falling rock.....	15
" 25	Geo Dixon.....	37	Braidwood.....	1	1	.....	.....	Leg bruised by falling rock.....	14
" 30	Wm. Clelland.....	40	".....	.....	1	.....	.....	Finger bruised by falling rock.....	14
Nov. 2	Joe Reva.....	37	".....	1	1	.....	.....	Back bruised by falling rock.....	7
" 2	Dom. Bartino.....	40	Diamond.....	.....	1	.....	.....	Head injured by falling rock.....	84
" 2	James Williams.....	33	LaSalle.....	1	3	.....	.....	Back hurt lifting car on roadway.....	18
" 7	John David.....	30	Braidwood.....	.....	1	.....	.....	Nose bruised by falling rock.....	7
" 7	Wm. Wilson.....	.....	C'l B'ch Jct.....	1	4	.....	.....	Finger crushed by falling coal.....	14
" 9	Fred Brandt.....	35	LaSalle.....	1	3	.....	.....	Hip joint dislocated by falling steam pipe.....	.....
" 9	Michael Hoar.....	30	".....	.....	1	.....	.....	Leg sprained by bursting steam pipe.....	.....
" 12	Anton Matone.....	25	Diamond.....	.....	1	.....	.....	Finger crushed by falling rock.....	28
" 13	Enoch Wheelright.....	43	Braceville.....	1	6	.....	.....	Shoulder bruised by falling rock.....	100
" 15	Baptisto Campo.....	35	Diamond.....	1	3	.....	.....	Side hurt by falling rock.....	28
" 16	A. Peacha.....	.....	Coal City.....	1	2	.....	.....	Foot hurt by falling rock.....	14
" 16	John Tah.....	.....	C'l B'ch Jct.....	.....	1	.....	.....	Thigh bruised by falling rock.....	22
" 18	P. McNery.....	56	Streator.....	1	6	.....	.....	Leg hurt by falling rock.....	6
" 25	Owen Roberts.....	26	".....	1	2	.....	.....	Burned by gas.....	6
" 27	John Weaver.....	.....	".....	.....	1	.....	.....	Head and face badly burned by gas.....	60
" 27	Wm. Hamilton.....	.....	".....	1	2	.....	.....	Face and arms badly burned by gas.....	60
" 27	John Peretto.....	41	Diamond.....	.....	1	.....	.....	Back hurt by falling rock.....	49
" 27	George Lindsey.....	65	LaSalle.....	.....	1	.....	.....	Foot hurt by falling rock.....	66
Dec. 3	John White.....	32	Diamond.....	1	5	.....	.....	Collar bone broken by falling coal.....	112
" 6	Thomas Toy.....	39	Braidwood.....	1	1	.....	.....	Hand bruised by falling rock.....	7
" 7	Augusta Abba.....	.....	C'l B'ch Jct.....	.....	1	.....	.....	Body bruised by falling rock.....	28
" 8	Anton Black.....	40	Braidwood.....	.....	1	.....	.....	Ribs broken by falling rock.....	14
" 10	Aug. Taparo.....	30	".....	.....	1	.....	.....	Knee broken by falling rock.....	.....
" 10	Dom. Viana.....	28	Diamond.....	1	3	.....	.....	Finger hurt by falling rock.....	.....

Non-Fatal Casualties—First District—1895—Continued.

Date.	Name.	Age.	Residence.	Married.	Children.	Single.	Dependents.	Character of Injury and Cause of Accident.	Time lost—days.
1894.									
Dec.	10 Mike Rolanda	42	Diamond	1	3		4	Back injured by lifting pit car	56
	11 Joe Elleno	29	Braidwood		2		3	Finger injured by falling rock	42
	11 Joe Guwzio	37	"		1		2	Back bruised by falling rock	17
	12 J. Verocioli		Carbon Hill		3		4	Head bruised by falling rock	14
	14 C. McEwen		"	1	5		6	Head bruised by falling rock	21
	14 Joseph Shilenskie	45	LaSalle		1			Body bruised by falling coal in room	31
	16 C. Jorie	40	Seneca		1			Arm fractured by falling rock	30
	17 A. Richie		Carbon Hill		1			Arm hurt by falling coal	130
	18 John Brovini	32	Braidwood		1			Burned by powder explosion	49
	19 D. Miller	29	Diamond	1	1		3	Toe crushed by falling rock	31
	21 Simpson	60	LaSalle	1	2		2	Body bruised by falling rock	21
	21 John Kern	40	Diamond	1	2		3	Toe crushed by falling coal	7
	26 P. Alexander	31	Braidwood		1			Back bruised by falling rock	106
	27 P. Gormelly	50	"		1			Hernia produced by strain in lifting	14
	27 Frank Sargallo	35	Diamond		1			Leg injured by falling coal	14
	28 Peter Beleno	39	"		1			Arm injured by falling rock	14
	28 Anton Pekoe		C.B. Junction	1	1		2	Finger crushed by falling coal	106
	29 Wm. Erickson	20	LaSalle		2		3	Hand cut, coupling cars	126
	31 M. Novak	33	Braidwood	1	2			Finger crushed by falling rock	35
	31 James McNulty	23	"		3		1	Leg broken by falling rock	
	31 B. Price	49	"	1	3			Sprained back lifting car	
1895.									
Jan.	1 Anton Forenetta		Gardner		1			Leg broken by falling rock	9
	1 Wm. Baker	25	Marseilles		1			Back hurt by falling rock	100
	2 C. Vinegar	35	LaSalle		8			Ankle bruised by falling coal	100
	6 Herman Melsted	48	Streator	1	1		9	Foot and leg caught between pit car	28
	7 P. Kuplinski	42	LaSalle	1	1		2	Arm broken by falling rock	6
	8 Lewis Abaside	37	Braidwood		1			Collar-bone broken by falling rock	35
	8 Bat. Linott	38	"	1	1		2	Foot injured by falling rock	14
	9 Lewis Serapin	25	Clarke City		1			Body injured by falling rock	35
	11 A. Mochetta		Carbon Hill	1	1		2	Toe crushed by falling coal	49
	13 Thomas Hopkins	22	Pontiac		1			Face burned, powder blast	35
	13 Dan Pismo	37	Braidwood		1			Bruised leg by falling rock	8
	13 Dave Jones	38	"	1	1		2	Face burned by powder blast	60
	15 Ed Salmon	34	Fairbury		2		3	Hip bruised by falling rock	30
	15 Regie Molinea		C.B. Junction	1	2		3	Foot bruised by falling rock	61
	17 Peter Macaive		"	1	2			Back bruised by falling rock	12
	17 Aug. Bloohtman		Diamond		1			Shoulder bruised by falling rock	28
	18 Thomas Pounds	26	Streator		4		5	Finger injured by falling coal	35
	18 Mike Bruno	50	Diamond	1	1		2	Side bruised by falling rock	28
	21 Wm. Allison	45	Braidwood	1	2		3	Leg bruised by falling rock	14
	23 Bat. Nira	41	"	1	1		2	Finger crushed by falling rock	21
	23 Ted Huret	28	"		1			Shoulder bruised by falling rock	14
	24 John Revill		Coal City		3		4	Foot injured by falling coal	21
	24 Lewia Courtes	37	Diamond	1	4		5	Foot bruised by falling coal in room	70
	23 T. O'Brien	60	LaSalle		1			Hip bruised by falling rock	98
	23 Camille Klyser	32	"		1			Two fingers mashed between cars	35
	24 John Kosley	45	Streator	1	5			(amputated)	40
	25 Joe Bertramo	18	Diamond		1			Leg and collar-bone fractured by falling rock	14
	25 Frank Bragati	35	"		1			Shoulder dislocated by falling down stairs at top	21
	26 John Prevanto	29	Braidwood		2		3	Eye injured by flying coal	28
	28 James Ballo		Carbon Hill	1	4		5	Burned by gas at face	14
	28 John Pometto	38	Braidwood		1			Finger bruised by falling coal	21
	29 Wm. Negherly	27	"		1			Finger injured by falling rock	14
	29 Abele Negre	29	Diamond		1			Finger injured by falling coal	60
	31 John Stemato		Kangley	1	6		7	Hand hurt by a shot in coal	14
Feb.	1 Frank Martina	42	Carbon Hill	1	1		2	Head bruised by falling rock	42
	1 Mike Tomka	42	Streator	1	5		6	Leg broken by falling coal	32
	3 George Hall	18	"		1			Leg broken by pit car	21
	6 Jack Michioletta		C.B. Junction		1			Leg bruised by falling rock	109
	7 Peter Madolino	32	Coal City	1	2		3	Back injured by falling rock	28
	8 Alex Mather		Streator	1	1		2	Body bruised by falling rock	42
	8 John Jones	35	Braidwood		1			Foot bruised by falling rock	14
	9 Wojivek Kulpa	35	LaSalle	1	4		5	Hand cut by falling coal in room	42
	10 Antonia Geraza	40	"		1			Leg bruised by falling coal in room	70
	12 Charles Calahan	16	Streator		1			Collar-bone broken, caught between cars	14
	12 James Keenan	18	Braidwood		1			Sprained back by falling rock	14
	12 John Gargo	35	LaSalle	1	5		6	Both legs broken below the knee, taking down coal	14
	13 John Valero	31	Diamond		1			Leg injured by falling rock	14
	13 Wm. Kasher	25	Braidwood		1			Toe crushed by pit car	14

Non-Fatal Casualties—First District—July 1, 1895—Continued.

Date.	Name.	Age.	Residence.	Married.	Children.	Single.	Dependents.	Character of Injury and Cause of Accident.	Time lost—days.
Feb 14	James Regas.....	27	Diamond.....	1	1	1	1	Hand injured by falling rock.....	35
" 14	J. Anderson.....	43	Carbon Hill.....	1	1	1	1	Foot crushed by pit car.....	36
" 15	D. P. Thomas.....	43	Braceville.....	1	1	1	1	Leg broken by falling rock.....	135
" 16	James Stewart.....	27	Braidwood.....	1	2	1	1	Finger crushed by falling rock.....	9
" 18	John Dufore.....	45	Seneca.....	1	1	1	1	Back hurt by falling rock.....	9
" 19	Ben Wheeler.....	45	Carbon Hill.....	1	1	1	1	Hip bruised by falling coal.....	24
" 19	Enoch Scobolinski.....	30	LaSalle.....	1	1	1	1	Arm broken and head cut by falling coal.....	1
" 19	Albert Cridge.....	24	".....	1	1	1	1	Leg cut and bruised, caught between car and wall.....	1
" 20	John Bene.....	37	Braidwood.....	1	1	1	1	Hand bruised by falling rock.....	14
" 21	Anton Rolando.....	30	".....	1	1	1	1	Hand bruised by falling rock.....	14
" 23	Wm Cridge.....	32	LaSalle.....	1	1	1	1	Thumb cut.....	1
Mar. 1	Julius Dahillo.....	30	Clarke City.....	1	1	1	1	Burned by gas.....	15
" 1	Joseph Malroe.....	25	".....	1	1	1	1	Burned by gas.....	1
" 1	Hugh Osborne.....	16	Diamond.....	1	1	1	1	Back injured by pit car.....	49
" 2	Sasso Leopoldo.....	25	".....	1	1	1	1	Finger injured by falling coal.....	35
" 2	John Branski.....	50	LaSalle.....	1	11	1	1	Collar bone broken by falling coal.....	1
" 4	Peter Sent.....	26	".....	1	1	1	1	Small bone broken in leg by falling rock.....	1
" 8	Nick Reese.....	35	Clarke City.....	1	2	1	1	Burned by premature explosion of powder.....	11
" 9	H. Devlin.....	40	".....	1	7	1	1	Hand hurt by coal falling down the shaft.....	6
" 9	Peter Pistoco.....	31	Braidwood.....	1	1	1	1	Finger injured by falling coal.....	14
" 11	Joe Berta.....	37	".....	1	1	1	1	Hand hurt by falling rock.....	14
" 12	John Suddick.....	23	".....	1	1	1	1	Leg broken by falling rock.....	91
" 13	Joe Blake.....	16	".....	1	1	1	1	Three toes amputated by falling rock.....	98
" 15	Nick Nicholas.....	25	".....	1	1	1	1	Back bruised and eye hurt by falling rock.....	42
" 15	M. Berto.....	15	Clarke City.....	1	1	1	1	Collar bone broken by riding on loaded car.....	35
" 15	Joe McCovie.....	27	Braidwood.....	1	1	1	1	Sprained back by falling rock.....	14
" 18	John Shimo.....	23	Streator.....	1	1	1	1	Foot hurt by falling rock.....	30
" 20	Geo. Moore.....	47	Braidwood.....	1	1	1	1	Head, neck and face bruised by falling rock.....	42
" 21	Anton Niva.....	31	".....	1	1	1	1	Back hurt by falling rock.....	7
" 22	John Hurd.....	32	LaSalle.....	1	3	1	1	Caught by pit car on grade; foot and body bruised.....	30
" 23	M. Heane.....	29	Braidwood.....	1	1	1	1	Bruised hand by falling rock.....	14
" 23	Lewis Maney.....	28	".....	1	1	1	1	Back bruised by falling coal.....	42
" 23	Frank Geovanne.....	30	".....	1	1	1	1	Back bruised by falling coal.....	7
" 25	John Dockter.....	50	".....	1	1	1	1	Leg bruised by falling rock.....	21
" 25	Sep. Mitchelson.....	33	Streator.....	1	2	1	1	Thumb mashed by falling rock.....	30
" 27	James Dunzerro.....	32	Diamond.....	1	1	1	1	Finger bruised by falling rock.....	21
" 29	John Bartino.....	29	".....	1	1	1	1	Leg injured by falling coal.....	84
" 30	Wm. Early.....	29	Carbon Hill.....	1	1	1	1	Foot hurt by falling coal.....	14
April 4	Robt. Brown.....	22	Diamond.....	1	1	1	1	Back hurt by falling rock.....	84
" 5	John Ward.....	27	Streator.....	1	2	1	1	Face and arms burned by gas explosion.....	50
" 5	C. Saunders.....	27	Carbon Hill.....	1	3	1	1	Back hurt by falling coal.....	21
" 8	Gus.....	27	Streator.....	1	2	1	1	Back hurt by falling coal.....	18
" 8	Niclo Geselo.....	27	C.B.Junction.....	1	1	1	1	Finger crushed by falling coal.....	14
" 8	Joe Modat.....	27	".....	1	3	1	1	Shoulder bruised by falling rock while brushing.....	14
" 8	Fred Wahl.....	41	LaSalle.....	1	3	1	1	Rib broken by falling rock.....	14
" 9	W. Bishop.....	31	Streator.....	1	1	1	1	Hip hurt by falling rock.....	60
" 9	Joe Erero.....	31	Diamond.....	1	1	1	1	Side injured by falling rock.....	21
" 10	Paul Jackslete.....	28	".....	1	1	1	1	Side injured by falling rock.....	28
" 11	Chas. Meyer.....	27	".....	1	1	1	1	Finger bruised by falling rock.....	35
" 11	A. Sunor.....	18	Kangley.....	1	1	1	1	Back severely hurt by falling rock.....	60
" 11	Wm. Lowdar.....	28	".....	1	1	1	1	Back severely hurt by falling rock.....	90
" 15	Joe Elwood.....	26	Streator.....	1	1	1	1	Head and back injured by falling rock.....	28
" 16	Dom DeJacko.....	35	Braidwood.....	1	1	1	1	Back sprained and bruised by falling coal.....	28
" 17	A. Ferraro.....	35	Carbon Hill.....	1	1	1	1	Hand hurt by falling rock.....	14
" 18	R. Zimbo.....	35	Diamond.....	1	1	1	1	Finger bruised by falling rock.....	25
" 18	Joe Bianco.....	39	".....	1	1	1	1	Back bruised by falling rock.....	21
" 18	Victor Dilmastio.....	39	C.B.Junction.....	1	1	1	1	Knee bruised by falling rock while brushing.....	21
" 18	Joe Dommetto.....	35	Braidwood.....	1	1	1	1	Back broken by falling rock.....	21
" 20	John Cunnott.....	41	".....	1	1	1	1	Finger bruised by falling rock.....	21

Non-Fatal Casualties—First District—1895—Concluded.

Date.	Name.	Age.	Residence.	Married.	Children.	Sing'le.	Dependent.	Character of Injury and Cause of Accident.	Time lost—days
1895.									
April 24	M. Cassel.....	..	Carbon Hill..	1	2	...	3	Head cut by falling rock	14
" 25	John McNamara..	19	Braidwood..	...	...	1	...	Foot bruised by pit car	14
May 2	Jack Turegletto..	61	"	1	1	...	2	Finger bruised by falling rock....	21
" 2	Wm. Sims.....	42	"	1	1	...	2	Eye injured by a piece of clay from pick	56
" 6	Peter Clark.....	..	Coal City ....	...	...	1	...	Hand cut and shoulder bruised taking down coal.....	28
" 6	Ben Lawrence...	30	Streator ....	...	...	1	...	Burned by gas explosion	12
" 14	Joe Macketto....	28	Diamond .....	...	...	1	...	Finger injured by falling rock....	14
" 20	George Collins:	35	Braidwood...	1	2	...	3	Thigh bruised by falling rock....	21
" 20	John Leik.....	66	Peru.....	1	3	...	4	Crushed foot by falling rock	48
" 22	James Littlejohn	27	Braidwood...	...	...	1	...	Foot bruised by falling rock	14
" 24	M. Gusso.....	30	"	...	...	1	...	Leg bruised by falling rock	21
" 24	Josiah Hatton...	49	LaSalle.....	1	3	...	4	Back bruised by falling coal .....	...
" 27	Robert Harrop...	32	Braidwood..	1	1	...	2	Hand hurt by falling coal.....	14
June 1	Gen. Hurley.....	48	Peru.....	1	1	...	2	Back hurt by falling coal	40
" 10	John McGrath...	45	Braidwood...	1	3	...	3	Hand crushed by falling rock	70
" 10	B. Guise.....	28	"	...	...	1	...	Finger bruised by falling coal.....	7
" 13	Chas. Huber.....	14	Diamond	1	...	...	...	Eye injured by flying coal	28
" 15	Dom. Piano.....	1	C.B.Junction	1	6	...	7	Leg bruised by falling coal	30
" 22	Wm. Pennish ...	..	Carbon Hill..	...	...	1	...	Back hurt by falling rock	21
	Totals—214.	..	.....	108	261	106	364	.....	6520

Recapitulation of Non-Fatal Accidents—First District—1895.

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Braceville	3	Cager	3	Burned by gas	8	Acme	1
Braidwood	63	Carpenter	1	Bursting steam pipe	1	Braceville No. 4	3
Carbon Hill	15	Coal Picker	3	Caught between cars	5	Braidwood O.	17
Clarke City	9	Driver	10	Falling coal	43	Braidwood P.	29
Coal Branch Junc.	12	Laborer	3	Falling rock	121	Braidwood Q.	8
Coal City	4	Miner	185	Falling down shaft	1	Big 4 No. 1	2
Diamond	43	Mule Boss	1	Falling down stairs	1	Big 4 No. 2	16
Fairbury	1	Roadman	3	Falling steam pipe	1	Cahill	2
Gardner	1	Stableman	1	Flying coal	2	Carbon Hill No. 1	6
Kangley	4	Topman	2	Lifting	4	Carbon Hill No. 2	5
LaSalle	27	Trip rider	1	Not stated	3	Carbon Hill No. 3	3
Marseilles	1	Water bailer	1	Pick	1	Castellar & Myers	1
Peru	2			Powder blast	3	Clarke City B.	6
Pontiac	2			Powder explosion	2	Clarke City No. 1	3
Seneca	2			Pit cars	17	Diamond No. 4	52
Streator	25			Railroad cars	1	Gardner No. 1	1
						Kangley No. 2	4
						LaSalle Mine	4
						LaSalle No. 1	8
						Marseilles No. 1	1
						N. Plum, Otter Creek	2
						Oglesby	6
						Otter Creek	3
						Pontiac Mine	2
						Rockwell	1
						Seneca Mine	3
						Spring Hill	8
						Streator No. 1	2
						Streator No. 3	8
						Union	7
						Walton Bros	1
15 towns	214	12 occupations	214	16 causes	214	31 collieries	214

The foregoing, with appended schedules giving detailed information concerning the individual mines in each county comprised within this district, together with a recapitulation embracing the whole district, completes my report for the year ending July 1, 1895.

Respectfully,

GARDNER, ILLINOIS.

THOMAS S. CUMMING,
State Inspector of Mines, First District.

Grundy County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.														Average value of lump coal per ton at the mine.
	Miners employed.		All other employes.	No. of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.				
	Average during year.	Highest during year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.		
Braceville C.Co., No.4	380	430	80	7	305	...	2	3	\$0 77½	\$0 85	213,386	194,886	18,500	\$1 25	
W. Star M. Co., No. 3	48	80	12	7	146	90	...	...	77½	85	24,380	22,000	2,380	1 15
" " No. 5	50	80	15	4	160	95	...	...	77½	85	29,450	26,550	2,900	1 15
Star Coal Co., No.1	250	310	25	5	164	60	...	...	77½	85	124,373	106,492	17,881	1 15
" " No. 2	350	600	60	6	148	110	...	7	77½	85	156,861	138,777	18,084	1 15	
" " No. 3	196	250	30	3	144	...	...	...	77½	85	...	...	...	...
C., W. & V. Co., "O."	215	248	53	2	119	123	...	3	77½	85	115,440	99,407	16,033	...	
" " "P."	359	395	77	3	148	...	18	77½	85	67,117	57,517	9,600	1 15		
W. M. & M. Co., No.4	500	540	70	40	130	...	2	29	77½	85	125,944	107,944	18,000	1 15	
Gard. Wil. Co., No. 1	40	129	40	5	102	...	...	52	77½	85	186,133	169,212	16,921	1 25
Big 4 Co., No. 1	150	170	34	5	81	25	1	77½	85	13,523	12,407	1,116	1 20		
" " No. 2	325	400	46	8	162	3	1	77½	85	24,718	22,574	2,144	1 30		
James Heather	8	11	1	...	282	21	2	14	1 20	1 20	157,806	149,121	8,685	1 30	
A. T. & Son, No. 1	6	9	1	...	100	...	...	...	1 15	1 15	3,546	3,390	150	1 15
A. W. Telfer, No. 4	4	8	1	...	225	...	...	...	1 05	1 05	1,451	1,001	450	1 25
Harry Kay	4	6	1	...	308	...	...	...	1 26	1 26	1,459	1,365	94	1 80
James Cryer, No. 1	2	2	...	...	275	...	...	...	1 20	1 20	1,280	1,200	80	1 25
" " No. 2	7	10	1	...	360	...	...	...	1 20	1 20	1,000	900	100	1 25
Frank Gilbride	6	10	1	...	212	...	...	...	1 26	1 26	3,000	2,800	200	1 25
Geo. Blair	2	2	1	...	165	...	...	...	1 20	1 20	1,906	1,760	140	1 25
Alex. Bell	3	4	1	...	125	...	...	...	1 20	1 20	500	450	50	1 25
T. Garrity (T.L.T.)	5	7	1	...	150	...	...	...	1 20	1 20	918	700	218	1 25
Geo. Burt	3	4	1	...	196	...	...	...	1 20	1 20	850	750	100	1 25
John Telfer	3	4	1	...	200	...	...	...	1 15	1 15	688	448	240	1 25
Griffith & Wren	3	2	...	...	160	...	...	...	1 20	1 20	280	200	80	1 25
Easley & Co.	6	10	1	...	195	...	...	...	1 20	1 20	1,000	800	200	1 25
Wm. Wood	8	11	1	...	240	...	...	...	1 20	1 20	2,009	1,759	250	1 10
J. D. Meagher	3	6	1	...	180	...	...	...	1 20	1 20	1,800	1,500	300	1 25
Dominico Gallo	4	4	1	...	100	...	...	...	1 00	1 00	532	500	32	1 25
Totals	3,743	557	95	...	724	6	134	...	...	...	1,261,838	1,126,810	135,028	...
Averages	2,940	...	...	...	188	...	...	...	.7823	.856	...	...	...	\$1 21

Kankakee County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.													Average value of lump coal per ton at the mine.
	Miners employed.		All other employees.	No. of boys employed under ground.	No. of working days in the year.	No. of kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.			
	Average during year.	Highest during year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.	
G. W. Co., No. 1,....	116	168	40	5	55	5	...	3	\$0 77½	\$0 85	24,488	21,427	3,061	\$1 25
" " No.2 or "B"	46	60	160	10	169	800	1	6	65	72½	56,025	30,431	25,594	1 15
Barker & Runcel	6	7	1	...	250	...	...	...	90	90	3,000	2,800	200	2 00
Totals .....	...	235	301	15	...	805	1	9	...	...	82,513	54,658	28,855	...
Averages	168	...	...	...	308	...	...	...	.7113	.7823	...	...	...	\$1 23

LaSalle County—First District—1895.

Name of firm, company or person operating mine.	Town or postoffice nearest the mine.	CHARACTER OF PLANT.										Estimated number of acres worked out during the year.
		Drift, Slope or Shaft.	Power—Steam, Horse or Hand.	Shipping or Local mine.	Hand or Machine mine.	Long-wall or Pillar and-room.	Old, New or Abandoned mine.	Paid weekly, semi-monthly or monthly.	Depth of coal below the surface—feet.	Thickness of seam—feet and inches.	Geological number of seam.	
Star Coal Co. No. 2.....	Kangley.....	Sh.	St.	Sh.	H.	P.R.	O.	S-M.	85	5	7	36.9
LaSalle C. C. Co., LaSalle..	LaSalle.....	"	"	"	"	L. W.	"	"	400	3.6	2	20.7
" " " " Rockwell..	"	"	"	"	"	"	"	"	400	3.6	2	12.7
" " " " Union.....	"	"	"	"	"	"	"	"	394	3.6	2	20.7
" " " " No. 1.....	"	"	"	"	"	"	"	"	400	3.6	2	23.4
Chl. Wil. & Ver. No. 1.....	Streator.....	"	"	"	"	P.R.	"	"	86	9	6-7	9.5
James Cahill.....	Peru.....	"	"	"	"	L. W.	"	"	394	3.6	2	15
Nelson Plumb (Pekin).....	Streator.....	"	"	"	"	P.R.	"	"	110	5.6	7	2.9
Wm. Howe & Co.....	"	"	"	"	"	"	"	"	50	5	7	1
Emerson Hakes (N. Ill. C. C.)	Rutland.....	"	"	Sh.	"	L. W.	"	"	380	2.8	2	8.5
Standard Coal Co.....	Seneca.....	"	"	"	"	"	"	"	102	2.10	2	3.6
Marselles L. & W. & P. Co.	Marselles.....	"	"	L.	"	"	"	M.	120	2.6	2	2.6
J. D. Harrington*.....	"	Dr.	Hd.	"	"	P.R.	"	W.	20	2.6	"	"
Acme Coal Co.....	Streator.....	Sh.	St.	Sh.	"	"	"	M.	106	5.6	7	3.6
Charles Scott.....	Kangley.....	"	"	L.	"	"	"	W.	75	9	6-7	.1
Price & Jones.....	Streator.....	"	"	Hr.	"	"	"	S-M.	33	5	7	1.1
Nelson & Westerlund.....	"	"	"	"	"	"	"	W.	20	5	7	.5
Rynn & Roberts.....	"	"	"	"	"	"	"	"	22	5	7	.3
Conquelin & Co.....	"	Sl.	"	"	"	"	Ab.	"	12	5	7	"
Jack McNeil.....	Kangley.....	Sh.	"	"	"	"	N.	D.†	75	9	6-7	"
Sylvester Kirnes.....	Streator.....	"	"	"	"	"	O.	W.	30	4	7	.1
Wm. Thorn.....	"	Sl.	"	"	"	"	"	"	30	5	7	.1
John Plumb (Eagle C. W'ks)	"	Sh.	St.	"	"	"	"	M.	"	2.10	2	.5
Hudson & Stubbs.....	"	Sl.	Hr.	"	"	"	N.	W.	40	5	7	.3
Wm. Penman.....	"	Sh.	"	"	"	"	"	"	35	5	7	.2
M. & H. Zinc Co.....	LaSalle.....	"	St.	"	B.‡	"	O.	"	310	4.6	5	8
Spring Hill (Baer & Roberts)	Streator.....	"	"	Sh.	H.	L. W.	"	M.	128	2.10	2	5.4
Olloway Heince.....	"	Dr.	Hd.	"	"	P.R.	N.	W.	35	5.6	7	.1
John Castetter.....	"	Sl.	Hr.	"	"	"	"	"	35	4	7	.2
Stearn & Eccleson.....	"	Dr.	Hd.	"	"	"	"	"	40	5.6	7	.04
Oglesby Coal Co.....	Oglesby.....	Sh.	St.	Sh.	"	L. W.	O.	S-M.	464	3.6	2	15.7
Totals (31 mines).....												183.7
Averages.....												

* Practically nothing done at this mine during the year and no report obtained.

† Daily.

‡ Both hand and machine.

LaSalle County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.														Average value of lump coal per ton at the mine.
	Miners employed.		All other employes.	No. of boys employed under ground.	No. of working days in the year.	No. of kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.				
	Average during year.	Highest during year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.		
Star Coal Co. No. 2..	350	460	90	15	204	900	2	4	\$0 62½	\$0 70	180,865	128,687	52,178	\$1 10	
LaSalle C.C.C., LaS..	210	242	67	8	175	.....	1	4	60	67½	103,555	87,775	15,780	1 29
" " R'kwi	160	222	45	4	154	.....	1	.....	60	67½	63,483	51,997	11,486	1 29
" " Union	260	315	74	10	146	.....	2	7	60	67½	103,496	87,708	15,788	1 29
" " No. 1.	262	295	84	.....	147	.....	9	.....	72½	80	117,066	99,234	17,832	1 29
C., W. & V. Co., No. 1	200	250	75	4	125	650	2	2	62½	70	135,926	95,728	40,208	1 10	
James Cahill.....	165	190	47	.....	240	.....	12	.....	60	67½	74,000	63,000	11,000	1 45
Nelson Plumb.....	75	80	30	.....	150	395	5	.....	62½	70	27,631	33,900	3,831	1 00
Wm. Howe & Co.....	18	25	5	.....	200	64	.....	.....	62½	70	7,978	6,378	1,600	1 20
Emerson Hakes.....	125	160	13	.....	.....	.....	.....	.....	70	80	34,304	28,887	5,417	1 20
Standard Coal Co.	40	84	9	3	162	.....	5	2	77½	85	14,423	13,340	1,083	1 30
Marseilles L. & W. P. Co	45	55	8	1	200	.....	1	.....	80	80	10,566	10,566	.....	1 30
J. D. Harrington.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Acme Coal Co.	75	84	19	.....	120	247	1	1	62½	70	31,427	24,702	6,725	1 10
Chas. Scott.....	4	8	2	.....	120	13	.....	.....	65	75	1,442	1,342	100	1 50
Price & Jones.....	15	28	4	.....	133	80	.....	.....	62½	70	9,875	7,975	1,900	1 20
Nelson & Westerlund	5	8	1	.....	300	.....	.....	.....	65	70	3,500	3,300	200	1 25
Rynn & Roberts.....	6	9	1	.....	167	30	.....	.....	62½	70	2,367	2,000	367	1 15
Conquelin & Co.....	2	2	.....	.....	75	.....	.....	.....	70	70	300	300	.....	1 25
Jack McNeil.....	1	1	1	.....	200	3	.....	.....	75	95	300	300	.....	1 00
Sylvester Kirnes.....	5	9	1	.....	70	.....	.....	.....	70	80	663	600	63	1 30
Wm. Thorn.....	2	4	1	.....	100	3	.....	.....	70	75	460	460	60	1 20
John Plumb (E.C.W.)	6	8	2	.....	300	20	.....	.....	50	60	1,500	1,500	.....	1 00
Hodson & Stubbs.....	7	7	2	.....	300	20	.....	.....	63	75	2,300	2,000	300	1 20
Wm. Penman.....	2	3	1	.....	250	.....	.....	.....	70	70	1,603	1,403	200	1 10
M. & B. Zinc Co.....	8	84	53	.....	209	1,161	.....	.....	.....	.....	55,004	55,004	.....	1 10
Spring Hill Co.....	75	140	15	6	218	146	2	8	77½	85	24,567	21,281	3,286	1 15	
Olloway & Heince.....	2	2	.....	.....	160	6	.....	.....	75	75	680	600	80	1 15
John Castetter.....	4	5	.....	.....	150	.....	1	.....	70	70	1,307	1,307	100	1 25
Stearn & Eccleson.....	2	2	.....	.....	60	5	.....	.....	75	75	340	300	40	1 15
Oglesby Coal Co.....	237	255	58	11	.....	.....	2	6	72½	80	73,694	60,864	12,830	1 26
Totals.....	2,987	708	62	.....	3,748	8,53	.....	.....	.....	.....	1,084,552	881,773	202,779	.....
Averages.....	2,368	.....	.....	.....	182	.....	.....	.....	\$0 6716	\$0 7446	.....	.....	.....	\$1 21

Will County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.														Average value of lump coal per ton at the mine.
	Miners employed.		All other employes.	No. of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.				
	Average during the year.	Highest during the year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.		
Chi., Wil. & Ver. No. 3	375	390	118	6	108	1076	1	8	\$0 62½	\$0 70	134,572	107,660	36,912	\$1 10	
R. Evans (Pontiac M.)	40	50	8	...	199	1074	...	2	75	75	25,549	14,882	10,667	1 30	
R. Evans (Coalville M.)	25	30	12	1	87½	25	...	...	62½	70	3,923	2,499	1,434	1 10
Barrackman & Son...	100	115	24	16	89½	260	...	...	62½	70	30,180	21,558	8,622	1 10
Walton Bros.....	28	37	17	...	198	1150	...	1	45	45	34,866	18,460	16,397	1 30	
Fairbury Coop'vs. Co.	11	11	8	...	198	600	...	...	50	50	11,078	8,089	2,989	1 20
Streator Clay M'fg. Co.	17	17	6	...	210	60	...	...	...	...	6,384	6,384	...	1 00
Thos. Edwards.....	6	14	1	...	250	9	...	...	75	75	1,100	1,100	...	1 50
John Marshall.....	12	12	3	...	170	...	...	...	50	50	6,000	4,800	1,200	2 00
Alex. Bergreen.....	15	20	5	...	133	...	...	...	62½	70	4,000	3,000	1,000	1 15
Wm. Burrill.....	4	8	1	...	100	...	...	...	75	75	...	...	...	...
Delgenio Coal Co.....	...	...	...	...	...	...	...	...	...	...	1,800	1,800	...	1 50
Harry Smoek.....	6	8	1	...	150	...	...	...	75	75	3,000	3,000	...	1 05
Joseph Kilburn.....	8	12	1	...	125	...	...	...	50	55	2,880	2,880	...	1 15
Oscar Kimes.....	6	9	1	...	240	...	...	...	65	70	1,026	1,026	...	1 00
Barton & Monaghan..	4	7	1	...	130	...	...	...	70	80	...	...	...	...
Totals.....	...	740	207	23	...	4261	1	11	...	...	267,133	197,847	69,286	...
Averages.....	657	...	...	...	167.8	...	...	...	.6406	.7065	...	...	...	\$1 12

Will County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.														Average value of lump coal per ton at the mine.
	Miners employed.		All other employés.	No. of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.				
	Average during the year.	Highest during the year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.		
Chi., Wil. & Ver. Co. Q	154	161	57	2	79½	...	...	7	\$0 77½	\$0 85	31,075	26,675	4,400	\$1 15
Coöperative Coal Co.	15	23	4	...	175	...	...	...	1 05	1 05	4,000	3,200	800	1 63
Wm. Maltby	10	18	3	...	210	...	...	...	80	80	3,600	3,100	500	1 55
Totals	179	202	64	2	...	...	...	7	.....	.....	38,675	32,975	5,700	.....
Averages .....	.....	.....	.....	.....	192½	.....	.....	.....	80.445	87.142	.....	.....	.....	\$1 24

Recapitulation of Coal Mines by Counties—

COUNTIES.	MINES.						MINERS.									
	Number of mines.	Shipping mines.	Mines in local trade.	New mines.	Abandoned mines.	Estimated number of acres worked out during the year.	No. of miners and others employés.				Average number of running days.	Number of kegs of powder used.	Casualties.			
							Average No. of miners.	Highest No. of miners.	No. of other employés.	No. boys under ground.			Killed.	Widows.	Children.	
																Injured.
Grundy.....	29	12	17	4	2	306.5	2,940	3,743	557	95	188.27	524	6	3	5	134
Kankakee.....	3	2	1	1	1	15.7	168	235	201	15	308.5	805	1	...	...	9
LaSalle.....	31	13	18	6	1	183.7	2,368	2,987	708	62	182.1	3,748	8	4	14	53
Livingston.....	16	5	11	4	2	40.4	657	740	307	23	167.8	4,261	1	1	1	11
Will.....	3	1	2	1	1	8.7	179	202	64	2	192.5	...	...	...	...	7
Totals.....	82	33	49	15	7	555	.....	7,907	1,737	197	.....	9,338	16	8	20	214
Averages.....	...	...	...	...	...	...	6,317	.....	.....	.....	187.83	.....	...	...	...	...

Whole number of openings reported in 1894, 72.

Number of new mines or places opened during the year, 15.

Number of mines exhausted or abandoned during the year, 16.

Whole number of openings reported for 1895, 81.

st Inspection District, 1895.

COUNTIES.	PRICES AND PRODUCTS.						Average value of lump coal per ton at the mine.	Average value of other grades per ton.	Aggregate value of the total product.
	Average prices for hand-mining.			Tons of coal mined.					
	Summer.	Winter.	Average for the year.	Total tons.	Tons of lump.	Tons of other grades.			
Iy.....	\$0.7823	\$0.856	\$0.8314	1,261,839	1,126,810	135,028	\$1.209	\$0.231	\$1,393,922
Akee	0.7115	0.7829	0.7592	83,513	54,658	28,855	1.2327	0.4966	81,709
le.....	0.6716	0.7446	0.7203	1,064,552	881,773	202,779	1.214	0.3695	1,145,755
gston	0.6406	0.7065	0.6845	267,133	197,847	69,286	1.127	0.4576	253,704
	0.80445	0.87142	0.849	38,675	32,975	5,700	1.243	0.2825	42,601
Totals				2,735,711	2,294,063	441,648			\$2,917,694
Averages	\$0.7388	\$0.8115	\$0.7873				\$1.205	\$0.3482	

11

12

13

14

15

16

SECOND INSPECTION DISTRICT--1895.

MR. GEORGE A. SCHILLING,

Secretary Bureau of Labor Statistics, Springfield, Illinois:

SIR:—In compliance with the law of the State of Illinois, defining the duties of the State Mine Inspectors, I herewith submit the twelfth annual report of the Second Inspection District for the year ending July 1, 1895.

This report contains tabulated statements of the mining industry for the year, giving number of mines in operation, number of persons employed in and about the mines; number of tons of coal of all kinds reported; selling and mining prices; fatal and non-fatal accidents; estimated number of acres worked out during the year; number of kegs of powder used and average selling and mining prices that obtain at the mines throughout the district, etc.

Number of mines—shipping.....	84
“ mines—local.....	212
Total number of mines.....	296
Number of new mines.....	46
“ of mines abandoned.....	41
“ of mines in 1894.....	241
“ of men employed above ground.....	517
of “ “ under “.....	6,667
Total number employed.....	7,184
Number of miners—highest.....	5,940
Other employes, including 78 boys under 16 years.....	1,244
Total.....	7,184
Average number of miners employed.....	4,605
“ of days worked during the year.....	170
Tons of lump coal.....	1,673,056
“ slack.....	278,806
“ nut.....	43,436
Total tons.....	1,995,298
Average value per ton at the mine—lump.....	\$1.802
“ “ “ —nut.....	\$0.844
“ “ “ —slack.....	\$0.352
Aggregate value of total product.....	\$2,309,623
Average price paid for mining lump—summer.....	\$0.7545
“ “ “ —winter.....	\$0.7967
Number of accidents—fatal.....	12
“ “ “ —non-fatal.....	98
Average time lost to the 8 men reported.....	24.9
Number of employes to each fatal accident.....	599
“ “ “ non-fatal accident.....	77
Tons produced to each accident—fatal.....	166,276
“ “ “ —non-fatal.....	21,455
Number of kegs of powder consumed.....	33,241
Estimated number of acres worked out.....	486.35
Steam boilers at the mines.....	15

Coal Production by Counties, with increase or decrease in each, for the years ending July 1, 1894 and 1895.

COUNTIES.	TOTAL OUTPUT OF LUMP COAL—IN TONS.		Decrease.	Increase.
	1894	1895		
Bureau	748,764	716,313	27,451	.....
Hancock	10,290	10,186	104	.....
Henry	106,453	137,484	.....	23,081
Knox	50,581	55,502	.....	4,921
Marshall	117,612	275,070	.....	157,458
McDonough	50,228	49,709	514	.....
Mercer	286,445	348,681	.....	62,236
Rock Island	40,041	42,337	.....	2,196
Schuyler	11,774	11,553	223	.....
Stark	23,182	22,131	51	.....
Warren	10,991	14,191	.....	3,200
Total	1,449,856	1,678,056	28,342	252,042
Increase				252,042
Decrease				28,342
Net increase in tons				223,700

Shaft Fire.—November 28, 1894, a fire occurred which destroyed the tower and hoisting shaft No. 1 of the Spring Valley Coal Company, at Spring Valley, Bureau county. There were 89 men and 41 mules in the mine when the fire broke out; all were taken out at the escape shaft without any one being injured.

At the present writing the shaft is being re-opened, and is now opened to within a few feet of the coal. The company is pushing the work to completion as rapidly as possible and expect to hoist coal from No. 1 this coming winter.

Improvements.—The Spring Valley Coal Company, at Spring Valley, Bureau county, has made a new overcast and repaired the fan and the fan house at No. 3 mine, which has greatly improved the ventilation. The above named company is putting in new hoisting engines and new track scales at No. 2, and have retimbered the bottom at same mine during the present year.

The Whitebreast Fuel Company, at Ladd, Bureau county, is enlarging the main air-way in the middle seam, from the "B" to the "A" shaft. When completed it will improve the ventilation in the "B" mine.

The Marquette Coal Company has purchased the mine formerly run by the C. W. & V. Coal Company, at Laceyville, Bureau county. They have changed the name of the town to Marquette; have put the mine in first-class condition, and are now busy grading for railroad tracks on top, and no doubt expect to mine coal extensively in the near future.

New Escapements.—The following companies and persons have been notified to sink escapements during the year, and have done so: Gray Eagle Coal Company, Galva; Herdien Coal Company, No. 13, Galva; Huffman Coal Company, Kewanee; Bernard Kirley, No. 2, Kewanee; Orpheus Kemerling, Hawley; William Aten, Victoria; Egerton Coal Company, No. 3, Colchester; Hill Bros. & Waters Coal Company, Cable; William P. Williams, Iledo; Silvis & Silvis, Carbon Cliff; James Cook, Hampton and John Kirk, Monmouth.

The Delvin Coal Company, at Toluca, has connected the workings of No. 1 mine with No. 3 shaft. They have driven two entries in each seam, one on each side of the workings, and each entry constitutes a separate means of escape. While driving the above entries it became necessary to resort to extreme measures to obtain a sufficient amount of air for the men that were working in them. Pipes were laid and an air-compressor furnished all the air that was required.

Fatal Accidents.—October 9, 1894, William A. Walters, aged 33 years, married, employed as a miner in a local mine operated by John Dunn, near Viola, Mercer county, was killed by being struck with coal from a shot that blew through the pillar between the room in which he and Harvey Smith were working, and an entry into which they had gone after lighting the shot. The hole had been drilled parallel with the face of the room and within about eighteen inches of being through to the entry into which they had gone to await the shot going off. He died in about two hours after the accident, leaving a widow and three children.

October 9, 1894, Harvey Smith, miner, aged 23 years, married, was killed instantly by being struck with coal from a shot, in John Dunn's mine, at the same time and place as above accident occurred. The two men had been working together. They were the only miners employed at the time and had two young men pushing the cars for them. The pushers had a narrow escape, as they had been sitting opposite the shot but moved further up the entry to make room for the miners when they came, after having lit the shot. Smith leaves a widow and one child.

November 3, 1894, Richard Eddings, miner, aged 20 years, single, was fatally injured by a premature blast in the Empire Coal Company's mine. He died a few minutes after the accident, before reaching the surface. He had drilled a hole in the coal through a sulphur band, and it is supposed that the cartridge got fast at that point and that he attempted to drill it out with the bit end of the drill, that it came in contact with the sulphur, and that a spark from the sulphur ignited the powder. He was found in an unconscious condition with the drill by his side, the bit end of it pointed towards the coal face, and at a distance of 42 feet from where the shot was fired, the needle was found in front of the hole, indicating plainly that it was not in the hole when the shot went off. The mine is situated at Gilchrist, Mercer county.

November 6, 1894, the body of Chas. Johnson, of Streator, was found about 11 o'clock p. m. at the bottom of the Wenona Coal Company's shaft by men that were working at night. The body was horribly mangled, showing that it had fallen down the shaft, which is 555 feet deep. He was a single man, aged 33 years. It is said that he had been seen in Streator on the 6th of November, 1894, and had mined coal in Streator last winter, but on account of cancer on the nose he had not worked of late. The verdict of the coroner's jury was that he came to his death by unknown means, supposed to be suicide.

December 24, 1894, John Williamson, an orphan boy 14 years of age, employed as slate-picker by the Delvin Coal Company at No. 1 shaft, Toluca, Marshall county, was killed by being caught in the elevator gear near the top of the tower. His place of work was at the bottom of the revolving screen, but for some unknown cause he had gone up to the top of the elevator and accidentally got caught in between two cog-wheels

that ran in vertical and horizontal directions. His leg and part of his body had been badly crushed by the time the engine was stopped, which was done as soon as possible after the alarm was given. It took about three-quarters of an hour to extricate him from the gearing, and he died in a few minutes afterwards.

December 30, 1894, Tuefel Rivers, miner, aged 27 years, married, was killed instantly by a fall of slate in the Devlin Coal Company's No. 1 mine at Toluca, Marshall county. He, in company with his "buddy," had gone into the mine on Sunday evening to work off a standing shot that they had fired on Saturday evening in order to have some loose coal for Monday morning. They had worked off nearly all the coal to the powder break, and deceased was in the act of mining the last part of the shot at which point in the shaft two treacherous slips met, one running across the room and the other along the pillar. The rock that fell on him was 18 inches thick in the thickest part, and about 12 inches in the thin part, and reached nearly across the room, which is 18 feet wide. It would probably weigh from 10 to 12 tons, and it had to be broken before the body could be taken out. The props were back about ten feet from coal face. Frank Smith, the man who was working with deceased, testified at the inquest that they knew of the slip running across the room, and that they had props in their room that were not in use but did not set them up, because they did not think there was any danger, or, "that they did not consider the rock dangerous." The accident was due to their own negligence or inexperience as coal miners. Such an accident as this should serve as a warning to all coal miners, to be more careful and keep props set close up to the face of coal when they encounter slips in the roof. Rivers left a widow and one child.

January 3, 1895, Jacob B. Thornton, miner, aged 43 years, married, was injured in Samuel Jones' local mine, at Augusta, Hancock county, at about 9:30 a. m., and died in about nine hours after the accident. He had gone to work in the morning and after commencing work, a large rock fell on him. He neglected to timber his room properly for such a bad top, having allowed the props to get too far back from the coal face. He left a widow and five children.

March 11, 1895, James Thompson, miner, aged 61 years, widower, having three married sons, was killed instantly by a fall of coal in No. 4 mine of the Spring Valley Coal Company, at Spring Valley, Bureau county. He was in the act of putting a prop to the roof about two feet from the road head in his room, at about 10 o'clock in the morning, when the coal fell and caught him against the building. Only one sprag had been holding up the coal and the weight caused the coal to break from over the sprag, liberating it. The lump of coal that fell on him was about 15 feet long, 8½ high, and 2 feet thick. Would weigh about 4 tons. Before going to timber, he should have taken the coal down or put at least two more sprags to it to keep it from falling.

March 25, 1895, Dominic Poglio, miner, aged 45 years, married, had a wife and four children. His back was broken by coal falling on him in the mine operated by the Marquette Coal Company, at Marquette, Bureau county, and died on April 5, eleven days after the accident. He *had sprags to the coal but they were set in such a manner that the coal* *fell over them.* Frank Eagle, a miner that worked in the next room to

the deceased stated that he had warned Dominic some time before the accident happened about the manner in which his sprags were set, and of the impending danger.

May 25, 1895, Thomas Powers, single, aged 25 years, owner and operator of a small mine north of Galesburg, Knox county, was suffocated in a shaft he was sinking, to be used for a hoisting shaft, it being to the dip of the workings; he intended to use the original hoisting shaft for an escapement. He struck the coal in the shaft he was sinking at the depth of 41 feet, and on account of having to do some farm work, he quit working at the shaft for a few days. On the morning of the 25th, he pumped the water from the mine at the hoisting shaft, and about 11 o'clock he was lowered into the sinking shaft by the man that he had to hoist the dirt. As soon as he reached the bottom, he called to the man on top to hoist him to the surface and when raised a few feet fell from the bucket. He was dead when taken out.

May 25, 1895, James Wilson, aged 33 years, married, had a wife and three children, was suffocated by black-damp in a shaft being sunk by Thomas Powers, near Galesburg, Knox county, while attempting to rescue Thomas Powers, who had been overcome by the black-damp. Mr. Wilson had been helping to sink the shaft, but had not been helping on day of accident as he was busy farming. He had just come in from the field to dinner, when the top man told him that Powers had fallen from the bucket. He immediately ~~went~~ to the shaft and the top man let him down, and he, too, lost his life.

June 8, 1895, Otto Gustafson, aged 22 years, single, miner, employed by the Alden Coal Company, in their mine at Wanlock, Mercer county, was instantly killed about 9 o'clock a. m., by a fall of slate in the room in which he was working. There were cracks or seams in the slate and the water had been leaking through it which caused the slate to loosen and fall sooner than it would have done had there been no water present. The rock was very large, 18 inches thick in the thickest part, and its average thickness was about 12 inches. It fell 28 feet back from the coal face and nearly the full width of the room. The body was found beneath the rock, ten feet from the coal face. There had been a few props set under the rock, but not enough to hold it up.

The following tables give the details of the fatal and non-fatal accidents:

Fatal Casualties—Second District—1895.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widow.	Children.	Single.	Dependents.	Cause of Accident.
1894.										
Oct. 9	William A. Walters.	33	Miner.....	Viola.....	1	1	3	..	4	Flying coal from a shot.
Oct. 9	Harvey Smith.....	23	"	"	1	1	1	..	2	Flying coal from a shot.
Nov. 3	Richard Eddings....	20	"	Gilchrist .....	..	..	..	1	..	Premature blast.....
Nov. 6	Charles Johnson....	33	Unemployed.	Streator .....	..	..	..	1	..	Cause unknown; sup- posed to be suicide...
Dec. 24	John Williamson....	14	Slate picker..	Toluca .....	..	..	..	1	..	Caught in gearing of elevator.....
Dec. 30	Tuefel Rivers.....	27	Miner.....	Toluca	1	1	1	..	2	Falling slate in his room.
1895.										
Jan. 8	Jacob B. Thornton..	43	Miner.....	Augusta	1	1	5	..	6	Falling rock in his room.
March 11	James Thompson....	61	"	Spr'g Valley. ....	..	..	1	..	1	Falling coal in his room.
March 25	Dominic Poglio.....	45	"	Marquette ...	1	1	4	..	5	Falling coal in his room.
May 25	Thomas Powers.....	25	Owner	Galesburg ...	..	..	..	1	..	Smothered by bl'k-damp in sinking shaft.....
May 25	James Wilson.....	33	Sinker	Galesburg ...	1	1	3	..	4	Smothered by bl'k-damp in sinking shaft.....
June 8	Otto Gustafson.....	22	Miner.....	Wanlock ....	..	..	..	1	..	Falling slate in his room.
	Totals .....	..	.....	.....	6	6	17	6	23	

Recapitulation of Fatal Accidents.

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Augusta.....	1	Miners.....	8	Caught in gearing of elevator.....	1	Alden Coal Co.....	1
Galesburg	2	Owner	1	Cause unknown...	1	Devlin Coal Co.....	2
Gilchrist.....	1	Sinker	1	Falling coal	2	Dunn, John	2
Marquette.....	1	Slate-picker ...	1	Falling rock	1	Empire Coal Co.....	1
Spring Valley...	1	Unemployed...	1	Fly'g coal f'm shot.	2	Marquette Coal Co...	1
Streator	1			Falling slate	2	Powers, Thomas	2
Toluca	2			Premature blast...	1	Samuel Jones	1
Viola.....	2			Smothered by bl'k- damp	2	Sp'g Val. C. Co. No. 4.	1
Wanlock.....	1					Wenona Coal Co.....	1
Totals	12	.....	12	.....	12		12

Non-Fatal Casualties—Second District—1895.

Date.	Name.	Age.	Residence.	Married.	Children.	Single.	Dependents.	Character of Injury and Cause of Accident.	Time lost—days.
1894									
July 18	J. McGeer	26	Toluca.			1		Arm injured by pit-cars	8
Aug. 8	C. Forte	30	"		4			Back injured by falling rock	10
" 10	John Rolando	27	"		4			Shoulder injured by falling rock	7
" 13	H. Proctor	29	"	1	4			Body injured by falling coal	7
" 15	F. Shontes	23	"		1			Finger hurt by a timber	7
" 20	John Murphy	25	"		1			Foot injured while pushing pit-cars	10
" 20	Isaac Delottie	21	"		1			Leg broken by falling rock	90
" 20	J. Barton	24	"	1	2		2	Body injured by flying coal from a shot	7
" 21	Fred. Englehoft	30	Spring Valley	1	4			Arm broken by coal falling down shaft	34
" 30	John Scott	50	Toluca.	1	4			Face injured by falling rock	7
" 30	Richard Mallett	23	"		1			Body injured by falling off wagon	15
" 30	John Clark	34	"	1	5			Finger cut off by pump	7
Sept. 3	John Stata	28	"	1	1		1	Body burned by lighting smoke from shot	7
" 7	Joseph March	30	Spring Valley		1			Eye injured by falling rock	24
" 7	John Diddle	31	"	1	5		5	Body injured by ascending cage	†
" 14	Mark Ord	17	Cable		1			Hand injured by rope and pulley	14
" 21	I. Donnelly	27	Wenona		1			Body injured by pit-cars	30
" 26	Henry Buckler	37	Wanlock	1	6		6	Three ribs broken by flying coal from shot	60
" 26	John Thompson	29	Ladd	1	2		2	Foot injured by pit-cars loaded with rock	59
" 28	Barney Consetto	26	Spring Valley		1			Leg injured by falling rock	24
Oct. 11	Wm. Wickham	28	Ladd	1	3		3	Body injured by falling coal	34
" 17	Louis Boardevallo	45	Seatonville	1	2		2	Leg broken by falling coal	*
" 19	Wm. Walker	35	Spring Valley	1	2		2	Body slightly injured by falling rock	6
" 29	E. Parker	24	Toluca.	1	1		1	Body injured by falling rock	10
" 29	E. M. Harkness	29	"	1	1		1	Knee injured by falling coal	7
" 30	John Skelton	45	Spring Valley	1	1		1	Body injured by falling coal	10
" 31	Thos. Anderson	36	Kewanee	1	3		3	Ankle dislocated, fell from ladder in air chamber of hoisting shaft	100
Nov. 10	J. Yarbrough	21	Toluca.	1	1		1	Body injured by falling rock	9
" 10	Robert Jackson	26	"		1			Finger hurt by a pit-car	8
" 12	Wm. Aitken	28	"	1	3		3	Head hurt by striking a timber	10
" 12	Geo. Gehring	59	Wenona	1	3		3	Leg broken by falling coal	180
" 15	A. Netskie	23	Toluca.	1	1		1	Back injured by falling coal	60
" 17	Thos. Ready	24	Seatonville	1	2		2	Neck jammed between pit-cars	52
" 30	S. Sheehan	29	Toluca.		1			Leg broken by pit-cars	*
" 30	L. Mulcheskie	38	"		1			Arm broken by falling rock	*
Dec. 10	Mike Berjak	22	Wanlock		1			Head cut by flying coal from a shot	8
" 10	John Haywood	30	"	1	1		1	Leg broken by falling coal	65
" 31	J. A. Mainon	29	Toluca.		1		1	Back hurt by falling	16
" 31	Lewis Eisenberg	44	Spring Valley	1	8		8	Three ribs broken by falling coal	24
1895									
Jan. 4	J. Rinehart	24	Toluca.		1			Foot injured by falling rock	15
" 8	Ben Wier	42	"		1			Foot injured by falling coal	30
" 9	F. Jones	27	"		1			Leg injured by flying coal from a shot	7
" 10	J. Margo	32	"		1			Face burned by lighting smoke from a shot	*
" 14	M. Hokenick	26	Toluca.		1			Body hurt by falling rock	7
" 14	M. Radka	38	Wenona	1	2		2	Ankle injured by falling coal	20
" 15	Geo. Dawson	28	Cable	1	1		1	Leg broken by falling coal	75
" 15	P. Grovanier	35	Toluca.		1			Leg broken by falling coal	*
" 16	J. Buoniece	28	"		1			Arm broken by falling coal	60
" 19	Joseph Smith	33	Spring Valley		1			Finger hurt coupling railroad cars	6
" 20	Dan Golden	46	Kewanee		1			Two toes broken by falling coal	50
" 22	A. B. Boyd	33	Toluca.		1			Face burned by a windy shot	20
" 24	J. Sork	31	"	1	3		3	Breast burned by igniting a little loose powder	10
" 24	Ricte Carlo	32	Ladd		1			Ankle injured by falling coal	30
" 24	Geo. Angelo	48	Spring Valley	1	4		4	Body injured by falling coal	12
Feb. 1	Peter Vanolina	29	Ladd		1			Knee injured by falling rock	8
" 9	Edward Lamb	20	Kewanee		1			Shoulder hurt by falling rock	12
" 20	James Sullivan	36	Spring Valley		1			Leg injured by pit-car	6
" 22	Chas. L. Larson	35	Galva	1	6		6	Arm broken by fly-wheel of water pump engine	70
" 25	Joseph Leshack	30	Gilchrist	1	5		5	Leg broken by flying coal from a shot	65

Non-Fatal Casualties--Second District--1895--Concluded.

Date.	Name.	Age.	Residence.	Married.	Children.	Single.	Dependents.	Character of Injury and Cause of Accident.	Time lost—days.
Mch. 9	John Milen	37	Spring Valley	1	1	..	1	Ankles broken by falling or jumping from engine house	87
" 13	Edward Clark	30	Gilchrist .....	..	..	1	..	Ankle injured by pit-car	10
" 13	John O'Brien	43	Toluca	1	4	..	4	Collar bone broken by falling on sump block	60
" 18	J. Heanota	27	" .....	..	..	1	..	Hand hurt by falling rock	4
" 23	James Keating	24	"	1	3	..	3	Shoulder sprained by pushing pit-car	15
" 28	J. Proctor	35	"	1	2	..	2	Hand hurt by falling rock	10
" 28	Wm. Fox	32	Wenona .....	..	1	..	1	Foot injured by falling rock	60
" 29	Chas. Clauss	31	Etherley	1	1	..	1	Hand injured, struck with coal pick	15
Apr. 1	W. A. Epoegraft	23	Toluca	1	1	..	1	Leg hurt by a timber	10
" 9	James Nelson	46	" .....	..	..	1	..	Wrist injured by being shot by Company weighman	*
" 10	W. S. Lee	27	Cable	1	3	..	3	Face burned by windy shot	12
" 12	E. Bradley	43	Toluca	1	4	..	4	Leg hurt by falling coal	7
" 17	James Ellison	34	Etherley	1	1	..	1	Finger injured by pit-cars	20
" 17	Henry A. Fletcher	18	Ladd .....	..	..	1	..	Breast and face scalded by steam escaping from pipe	26
" 24	Chas. Petroski	22	Toluca	1	1	..	1	Back slightly injured by falling rock	10
" 27	Constant Cachiony	40	Spring Valley .....	..	1	..	1	Foot hurt by falling rock	6
" 29	John Scott	23	Toluca .....	..	..	1	..	Head injured by premature blast	15
May 1	John Miller	28	Spring Valley	1	3	..	3	Hand cut by buzz saw	4
" 10	Peter Hoenschelt	30	"	1	4	..	4	Leg hurt by pinch-bar slipping	8
" 10	David Walker	50	" .....	..	..	1	..	Foot hurt by pit car	4
" 11	Lewis Work	33	Ladd	1	3	..	3	Shoulder hurt by falling coal	29
" 35	Wm. Bishop	35	Toluca	1	3	..	3	Shoulder bruised by pit-cars	8
" 30	L. Jones	29	"	1	2	..	2	Ankle injured by pit-car	15
" 22	Chas. Ponbetz	28	Marquette .....	..	1	..	1	Hand hurt by strand of wire rope	15
" 35	Wm. Hornson	45	"	1	6	..	6	Collar bone broken by falling coal	†
" 28	J. Knox	30	Toluca .....	..	1	..	1	Knee sprained by falling in entry	12
" 28	E. Bell	62	"	1	1	..	1	Hand injured by falling coal	20
" 28	P. Calrati	40	"	1	2	..	2	Leg broken by falling rock	†
June 8	J. Kniodis	28	" .....	..	..	1	..	Arm injured by flying coal from shot	10
" 10	E. Sullivan	18	" .....	..	..	1	..	Foot injured by falling coal	7
" 17	M. Donagle	25	" .....	..	..	1	..	Finger hurt by falling coal	7
" 19	G. W. McDuffey	34	"	1	2	..	2	Shoulder injured by falling rock	11
" 29	Chas. Sherwood	29	" .....	..	..	1	..	Toes injured by a timber pinching them	†
" 29	John Mulligan	34	Ladd .....	..	..	1	..	Two ribs broken by pit-car mule running away	†
Totals (Injured, 93) ..		..	..	50	141	43	141	..	2040

* Time lost not known, having left town.

† Permanently injured.

‡ Not at work July 1, 1895.

The average lost time of the 92 men reported is 24.9 days.

RECAPITULATION OF NON-FATAL CASUALTIES.

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Cable	3	Ass't machinist	1	Buzz saw	1	Alden Coal Co	3
Etherley	2	Cagers	4	Cage	1	Atkinson Matthew	1
Galva	1	Car-runner	1	Coal fall'g d'n sh'ft	1	Bates Bros	1
Gilchrist	2	Drivers	10	Coal pick	1	C., W. & V. Coal Co. ...	2
Kewanee	3	Engineers	3	Falling coal	22	Coal Valley Min. Co. ...	3
Ladd	7	Fireman	1	Fall'g fr'm eng. h'ee	1	Devlin Coal Co.	49
Marquette	2	Laborers	12	Falling in entry	2	Empire Coal Co.	2
Seatonville	2	Mine manager	1	Falling off ladder	1	Galesburg Coal Co. ...	2
Spring Valley ..	15	Miners	59	Falling off wagon	1	Herdien Coal Co.	1
Toluca	49	Roadman	1	Fall'g on s'p block	1	Lyle, W. H.	1
Wanlock	3			Falling rock	23	Marquette Coal Co. ...	2
Wenona	4			Flying coal, shots	6	Spring Valley Coal Co.	15
				Fly wheel	1	Wenona Coal Co.	4
				Igniting loose p'der	1	Whitebreast Fuel Co..	7
				Light'g smoke, shots	2		
				Pinch bar	1		
				Pit cars	15		
				Premature blast	1		
				Pump	1		
				Railroad cars	1		
				Ropes and pulley	2		
				Steam	1		
				Timbers	4		
				Windy shots	2		
Totals	93		93		93		93

The tables following give information in detail of the mines in the eleven coal producing counties in this district; also a recapitulation of all the counties indicated in regular order.

Respectfully submitted,

EDWARD FELLOWS,
State Inspector of Mines, Second District.
GALVA, ILL.

Bureau County, 1895 Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.													Average value of lump coal at the mine.
	Miners employed.		All other employes.	No. of boys employed underground.	Running days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.			
	Average during the year.	Highest during the year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.	
Spring V.C. Co. No. 1	460	532	135	4	73	.....	1	8	\$0 72½	\$0 80	90,797	80,198	10,599	\$1 32
" " No. 2	395	410	107	4	163	.....	1	8	72½	80	180,373	155,197	25,176	1 32
" " No. 3	350	474	102	5	179	.....	1	5	72½	80	157,725	132,848	24,877	1 32
" " No. 4	276	291	73	3	106	.....	1	7	72½	80	83,478	70,712	12,761	1 32
Whiteb. F. Co., "B"	297	331	89	.....	103	.....	1	7	72½	80	127,869	104,568	23,301	1 24
Marquette Coal Co.	150	160	60	.....	140	.....	1	2	60	67½	59,890	52,742	7,148	1 10
C. W. & V. Coal Co.	200	260	50	5	108	.....	2	2	60	67½	97,293	82,997	14,296	1 15
Sheffield Mining Co.	40	50	7	.....	235	.....	.....	.....	75	87½	14,403	14,403	.....	1 75
Hodgett & Williams	12	18	2	.....	230	.....	.....	.....	87½	87½	4,600	4,600	.....	2 00
Peter Duncan	3	6	1	.....	180	.....	.....	.....	87½	87½	1,103	1,103	.....	2 00
John Duncan	3	5	1	.....	180	.....	.....	.....	87½	87½	970	920	50	2 00
James Sprague	5	10	1	.....	110	.....	.....	.....	87½	87½	800	800	.....	2 00
Fleming & Kildow	5	8	1	.....	100	3	.....	.....	87½	87½	841	841	.....	2 03
Fred Jensen	4	12	1	.....	300	.....	.....	.....	87½	87½	2,574	2,574	.....	1 50
Hodgett & Co.	3	6	1	.....	120	.....	.....	.....	87½	87½	600	600	.....	1 50
William Brant	3	6	1	.....	250	7	.....	.....	87½	87½	1,548	1,548	.....	1 50
Silas W. Riley	3	7	1	.....	140	5	.....	.....	87½	87½	830	820	.....	1 50
J. M. Vanvelzer	2	3	1	.....	90	.....	.....	.....	87½	87½	290	280	.....	1 50
William Smith	3	7	1	.....	150	55	.....	.....	1 00	1 00	720	700	20	1 75
George Heathcock	11	14	2	.....	180	200	.....	.....	80	80	4,784	4,784	.....	1 60
A. W. Walton	10	16	2	.....	200	150	.....	.....	1 00	1 00	3,078	3,078	.....	1 75
Totals	2,235	2,626	639	21	171	420	2	36	.....	.....	834,541	716,313	118,228	.....
Averages	.....	.....	.....	.....	.....	.....	.....	.....	\$0 7315	\$0 8029	.....	.....	.....	1 398

Hancock County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.													Average value of lump coal per ton at the mine.
	Miners employed.		All other employes.	No. of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.			
	Average during the year.	Highest during the year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.	
Augusta Coal Co.....	9	14	1	...	260	...	...	...	\$0 87½	\$0 87½	3,290	3,290	...	\$1 37
Samuel Jones.....	9	11	1	...	165	...	1	...	1 00	1 00	2,548	2,500	48	1 50
Jacob Marks.....	6	8	...	...	180	...	...	...	1 00	1 00	1,640	1,600	40	1 50
William Holder.....	2	4	...	...	160	...	...	...	1 00	1 00	486	486	...	1 50
Geo. Bryson.....	4	7	1	...	170	...	...	...	1 00	1 00	950	950	...	1 25
M. F. Ray.....	5	8	...	...	200	...	...	...	1 12½	1 12½	1,360	1,360	...	1 50
Totals.....	35	52	3	...	...	...	1	...	...	...	10,274	10,186	88	...
Averages.....	...	...	...	...	189	...	...	...	\$0 976	\$0 976	...	...	...	1 436

Henry County—Second District—1895.

[illegible]

* Three-quarter of the coal consumed at his clay works, at Kewanee.

Henry County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.														Average value of lump coal per at to the mine.
	Miners employed.		All other employes.	No of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.				
	Average during year.	Highest during year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.		
Kewanee C. Co. No. 7	55	60	11	1	230				\$0 75	\$0 75	31,206	28,421	2,785	\$1 35	
No. 1	50	60	10	1	200				75	75	25,724	23,549	2,175	1 35	
Bernard Kirley	9	17	3		227				87½	87½	4,331	4,306	25	1 50	
Henry Bros	10	23	2		200				87½	87½	4,075	4,000	75	1 50	
Matthew Atkinson	6	13	3		250		1		87½	87½	3,456	3,456		1 50	
Bates Bros	8	12	3		225		1		87½	87½	2,900	2,900		1 50	
W. H. Lyle	6	6	1		250		1		87½	87½	2,800	2,800		1 50	
Ralph Todd	6	8	2		200			1 00	1 00	2,200	2,200		1 50		
Garland & Dixon	4	6	1		190				87½	87½	1,533	1,533		1 50	
Ritka & Peart	6	10	2		175				87½	87½	1,440	1,440		1 50	
Huffman Coal Co.	3	4	1		200				87½	87½	920	920		1 50	
Peter Malone	3	4	1		200				87½	87½	766	766		1 50	
Mink Bros	2	5	1		150				87½	87½	560	560		1 50	
Reinold Kempin	2	3	1		210				93¾	93¾	460	460		1 50	
Martin Bros	3	6	2		122				87½	87½	455	455		1 50	
Meessmore & Anders'n	2	6	1		45				80	80	160	160		1 50	
Thos. Carter & Son.	2	2			65				87½	87½	150	150		1 50	
E. P. Lincoln	2	3			40				87½	87½	121	121		1 50	
William Lane	1	2	1		35				87½	87½	60	60		1 50	
Gray Eagle Coal Co.	40	80	4		200				70	80	16,040	15,017	1,023	1 20	
Herdien C. Co. No. 13	29	39	3		185		1		70	80	8,518	7,965	550	1 25	
No. 12	17	24	3		265				80	80	7,001	6,701	300	1 38	
J. H. Murray	14	23	2		200				87½	87½	5,932	5,932		1 50	
Phillip Murphy	2	3	1		100				75	75	460	460		1 50	
Orpheus Kemerling	2	3	1		125				75	75	530	480	50	1 50	
John Mowbray	7	12	1		250			1 25	1 25	3,950	3,350	600	1 87		
Elery Riley	4	8	1		212			1 25	1 25	1,600	1,600		2 00		
Richard Marley	6	9	1		225			1 25	1 25	2,750	2,400	350	2 00		
Wm. & Richard Kay	6	10	2		165			1 25	1 25	1,400	1,400		2 00		
Thomas Frew	5	10	1		150			1 25	1 25	920	920		2 00		
Fairlie & Sandor	7	16	3		238	120		1 25	1 25	2,749	2,199	550	2 00		
Hershaw & O'Day	3	4			150	25		87½	87½	800	800		1 75		
Totals	332	491	69	2		145	4				135,967	127,484	8,483		
Averages					196				\$0 8248	\$0 8248				1.426	

† Omitted in obtaining the average number of days.

Knox County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWER, ACCIDENTS AND PRODUCT.														Average value of lump coal per ton at the mine.
	Miners employed.		All other employees.	No. of boys employed under ground.	No. of working days in the year.	No. of kegs of power used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.				
	Average during year.	Highest during year.					Injured.	Killed.	Summer.	Winter.	Total.	Lump coal.	Other grades.		
Galesburg C. C., No. 1	27	38	8	....	154	4	2		\$0 60	\$0 60	8,048	5,935	2,113	\$0 90
" " No. 2	17	25	1	....	125				60	60	4,325	4,325	....	80
David Grim	6	19	1	....	*75	....			75	75	1,080	1,080	....	1 25
John Walsh	5	10	1	....	175	....			75	75	1,680	1,680	....	1 25
A. P. Boyer	22	3	....	....	*75	....			75	75	400	400	....	1 12
Essex & Son	25	38	4	2	195	210			75	75	5,470	5,470	....	1 25
Pendergrass & Reeder	7	18	3	....	230	15			75	75	3,610	3,510	100	1 25
Ross & Woodward	8	12	12	....	200	....			75	75	3,600	3,600	....	1 25
Thomas Powers	4	6	1	....	*90	12	2		75	75	344	344	....	1 25
M. R. Brown	5	14	1	....	200	....			80	80	2,015	2,000	15	1 25
Lundeen & Sholeen	4	7	1	....	225	....			87½	100	1,500	1,500	....	1 40
Charles Nelson	3	6	1	....	150	....			87½	100	720	720	....	1 50
S. H. Hopper	3	5	1	....	100	....			87½	87½	440	400	40	1 50
Lewis & Dodd	2	4	....	....	135	....			87½	87½	420	420	....	1 50
Anderson & Nelson	2	3	....	....	120	....			80	80	350	350	....	1 25
H. Taylor, No. 1	4	16	1	....	230	....			75	75	2,400	2,400	....	1 25
" " No. 2	6	24	2	....	235	....			75	75	3,600	3,600	....	1 25
James Taylor	10	13	2	1	150	....			75	75	2,029	2,029	....	1 12
Fred Johnson	4	4	....	....	*80	....			75	75	832	832	....	1 25
William Estling	2	3	....	....	100	....			75	75	450	450	....	1 25
Geo. Clifford, No. 1	2	2	5	....	230	....			75	75	880	880	....	1 50
" " No. 2	2	7	1	....	230	....			75	75	1,320	1,320	....	1 50
James McGovern	5	9	1	....	150	....			75	75	1,400	1,400	....	1 00
Charles Morgan	3	3	....	....	100	....			75	75	500	500	....	1 25
John White	2	3	....	....	130	....			75	75	480	480	....	1 50
Bowman Bros.	5	8	2	....	125	....			75	75	1,674	1,182	492	1 25
Robert Marshall	2	5	1	....	150	....			75	75	543	475	68	1 25
Baird & White	4	8	1	....	175	....			75	75	1,158	1,158	....	1 25
Rodgers Bros.	3	6	....	....	185	....			75	75	1,060	1,060	....	1 25
G. A. Arnold	5	15	1	....	150	15			75	75	1,320	1,320	....	1 00
A. L. King	4	7	1	....	150	....			75	75	924	924	....	1 25
William Aten	2	6	1	....	210	42			75	75	823	823	....	1 25
Seven Surface Mines.	18	26	....	....	*97	....			....	75	2,935	2,935	....	1 30
Totals	206	376	39	3	....	298	2	2	....	....	58,330	55,502	2,828	....
Averages	....	....	....	....	....	168	....	....	.735	.736	....	....	....	\$1 18

* Not included in estimating number of working days.

Marshall County, 1995—Concluded.

EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.															Average value of lump coal per ton at the mine.
Name of firm, company or person operating mine.	Miners employed.		All other employees.	No. of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.				
	Average during the year.	Highest during the year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.		
Devlin Coal Co., No. 1	375	519	100	...	297	8,871	2	49	\$0 72½	\$0 80	262,390	200,658	61,739	\$1 30	
" " " No. 2	4
" " " No. 3
Wenona Coal Co.	150	225	30	3	196	60	1	4	72½	80	71,141	61,862	9,279	1 26	
Sparland Coal Co.	30	40	11	2	130	...	...	...	72½	80	10,576	10,376	200	1 30
George Christman	2	3	...	...	100	10	...	...	87½	87½	350	350	...	1 25
Bernard Lanning	1	2	...	...	150	2	...	...	87½	87½	300	300	...	1 25
Wallace Hoadley	2	4	...	...	165	3	...	...	87½	87½	180	180	...	1 25
Robert Ingram	2	4	...	...	150	4	...	...	87½	87½	160	160	...	1 25
John Cerva	1	12	...	...	185	12	...	...	87½	87½	125	125	...	1 25
Charles Sable	2	3	...	...	140	3	...	...	87½	87½	100	100	...	1 25
John Davis	1	1	...	...	175	...	...	...	87½	87½	95	95	...	1 25
Henry Davis	1	12	...	...	165	...	...	...	87½	87½	84	84	...	1 25
William Horrocks	2	12	...	...	150	12	...	...	87½	87½	460	460	...	1 25
William Bough	2	3	...	...	125	8	...	...	87½	87½	300	200	...	1 25
William C. Lopeman.	2	2	...	...	135	6	...	...	87½	87½	120	120	...	1 25
Totals	573	812	147	5	...	8,981	3	53	...	...	346,281	275,070	71,211	...
Averages .....	...	...	...	...	164	...	...	...	.689	.764	...	...	...	\$1 21

† Omitted in obtaining average number of running days.

McDonough County, 1895—Concluded.

of firm, com- pany or person op- erating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.													Average value of lump coal per ton at the mine.
	Miners employed.		All other employes.	No. of boys employed under ground.	No. of working days in the year.	Kegs of powder used during year.	Casual- ties.		Prices paid per ton for hand mining.		Tons of coal mined.			
	Average dur- ing year.	Highest dur- ing year.					Killed.	Injured.	Sum- mer.	Win- ter.	Total.	Lump coal.	Other grades.	
C. Co. No. 34.	40	40	4	2	*53	.....	.....	.....	\$1 00	\$1 00	3,673	3,353	420	\$1 50
" " No. 35.	40	55	4	2	155	.....	.....	.....	1 00	1 00	10,456	9,332	1,124	1 50
" " No. 36.	65	75	8	3	*30	.....	.....	.....	1 00	1 00	2,102	1,822	280	1 50
ter C. & M. Co.	40	40	5	.....	111	.....	.....	.....	1 00	1 00	8,764	7,710	1,054	1 50
C. Co. No. 3	25	35	4	.....	135	.....	.....	.....	1 00	1 00	5,600	4,800	800	1 50
est.....	6	8	1	.....	200	.....	.....	.....	1 00	1 00	1,680	1,680	.....	1 50
Smith.....	5	6	1	.....	210	.....	.....	.....	1 00	1 00	1,620	1,620	.....	1 50
D. Williams.	4	4	1	.....	240	.....	.....	.....	1 00	1 00	1,500	1,500	.....	1 50
& Wagler.....	6	8	.....	.....	170	.....	.....	.....	1 00	1 00	1,480	1,480	.....	1 50
herbin.....	7	11	1	.....	145	.....	.....	.....	1 00	1 00	1,288	1,288	.....	1 50
oben.....	6	8	.....	.....	110	.....	.....	.....	1 00	1 12½	960	960	.....	1 50
obinson.....	3	3	.....	.....	200	.....	.....	.....	1 12½	1 12½	850	850	.....	1 50
kinson.....	4	7	.....	.....	140	.....	.....	.....	1 00	1 00	800	800	.....	1 50
Cochrane.....	3	4	1	.....	180	.....	.....	.....	1 12½	1 12½	720	720	.....	1 50
pling.....	3	4	.....	.....	150	.....	.....	.....	1 12½	1 12½	600	600	.....	1 50
Whalen.....	3	4	1	.....	105	.....	.....	.....	1 00	1 00	525	525	.....	1 50
Donough.....	2	3	.....	.....	160	.....	.....	.....	1 00	1 00	480	480	.....	1 50
all.....	3	5	.....	.....	110	.....	.....	.....	1 00	1 00	480	480	.....	1 50
liard.....	2	3	.....	.....	160	.....	.....	.....	1 00	1 00	450	450	.....	1 50
akefield.....	2	4	.....	.....	150	.....	.....	.....	1 00	1 00	325	325	.....	1 50
arrison.....	3	5	.....	.....	85	.....	.....	.....	1 00	1 00	320	320	.....	1 50
Heppenstall.....	2	3	.....	.....	85	.....	.....	.....	1 00	1 00	240	240	.....	1 50
ryan.....	2	3	.....	.....	70	.....	.....	.....	1 00	1 00	200	200	.....	1 50
Whalen.....	2	3	.....	.....	6	.....	.....	.....	1 00	1 00	200	200	.....	1 50
earson.....	2	2	.....	.....	80	.....	.....	.....	1 12½	1 12½	200	200	.....	1 50
Newman.....	2	2	1	.....	75	.....	.....	.....	1 12½	1 12½	200	200	.....	1 50
Wilson.....	2	2	.....	.....	60	.....	.....	.....	1 00	1 00	160	160	.....	1 50
Laity.....	1	2	.....	.....	100	.....	.....	.....	1 00	1 00	156	156	.....	1 50
& Hoar.....	2	2	.....	.....	*53	.....	.....	.....	1 00	1 00	150	150	.....	1 50
ordon.....	2	2	.....	.....	*50	.....	.....	.....	1 00	1 00	150	150	.....	1 50
& Fox.....	2	2	.....	.....	*40	.....	.....	.....	1 00	1 00	120	120	.....	1 50
a Barker.....	2	2	.....	.....	*42	.....	.....	.....	1 00	1 00	120	120	.....	1 50
y Bros.....	2	2	.....	.....	*35	.....	.....	.....	1 00	1 00	100	100	.....	1 50
t Son.....	2	2	.....	.....	*35	.....	.....	.....	1 00	1 00	100	100	.....	1 50
Whalen.....	7	8	1	.....	190	.....	.....	.....	1 00	1 00	1,860	1,860	.....	1 25
& Dewitt.....	4	6	1	.....	220	.....	.....	.....	1 06	1 00	1,220	1,220	.....	1 25
Smith.....	3	4	.....	.....	175	.....	.....	.....	1 25	1 25	820	820	.....	1 50
l Jones.....	3	4	.....	.....	190	.....	.....	.....	1 00	1 00	786	786	.....	1 50
McIntyre.....	2	2	.....	.....	160	.....	.....	.....	1 00	1 00	480	480	.....	1 50
Burdick.....	2	3	1	.....	175	.....	.....	.....	1 12½	1 12½	588	588	.....	1 75
& Wilson.....	3	4	1	.....	260	.....	.....	.....	1 25	1 25	864	864	.....	1 75
als.....	323	392	36	7	144	.....	.....	.....	.....	.....	53	.....	3,678	.....
verages.....	.....	.....	.....	.....	.....	.....	.....	.....	\$1 015	\$1 018	.....	.....	.....	\$1 49

omitted in estimating average number of working days.

McDonough County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.												
	Miners employed.		All other employees.	No. of boys employed under ground.	No. of working days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.		
	Average during year.	Highest during year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.
Quincy C. Co. No. 34.	40	40	4	2	*53	.....	.....	.....	\$1 00	\$1 00	3,673	3,253	420
" " No. 35.	40	55	4	2	155	.....	.....	.....	1 00	1 00	10,456	9,332	1,124
" " No. 36.	65	75	8	3	*30	.....	.....	.....	1 00	1 00	2,102	1,822	280
Colchester C. & M. Co.	40	40	5	.....	111	.....	.....	.....	1 00	1 00	8,764	7,710	1,054
Egerton C. Co. No. 3	25	35	4	.....	125	.....	.....	.....	1 00	1 00	5,600	4,800	800
L. H. Vest.	6	8	1	.....	200	.....	.....	.....	1 00	1 00	1,680	1,680	.....
George Smith.	5	6	1	.....	210	.....	.....	.....	1 00	1 00	1,620	1,620	.....
Mrs. W. D. Williams.	4	4	1	.....	240	.....	.....	.....	1 00	1 00	1,500	1,500	.....
Stevens & Wagle.	6	8	.....	.....	170	.....	.....	.....	1 00	1 00	1,480	1,480	.....
David Sherbin.	7	11	1	.....	145	.....	.....	.....	1 00	1 00	1,388	1,288	.....
Amos Ebben.	6	8	.....	.....	110	.....	.....	.....	1 00	1 12½	960	960	.....
Wm. Robinson.	3	3	.....	.....	200	.....	.....	.....	1 12½	1 12½	850	850	.....
L. P. Atkinson.	4	7	.....	.....	140	.....	.....	.....	1 00	1 00	800	800	.....
Thomas Cochrane.	3	4	1	.....	180	.....	.....	.....	1 12½	1 12½	720	720	.....
Wm. Kipling.	3	4	.....	.....	150	.....	.....	.....	1 12½	1 12½	600	600	.....
Peter Whalen.	3	4	1	.....	105	.....	.....	.....	1 00	1 00	525	525	.....
Leo McDonough.	2	3	.....	.....	160	.....	.....	.....	1 00	1 00	480	480	.....
John Hall.	3	5	.....	.....	110	.....	.....	.....	1 00	1 00	480	480	.....
Eli Hilliard.	2	3	.....	.....	160	.....	.....	.....	1 00	1 00	450	450	.....
Geo. Wakefield.	2	4	.....	.....	150	.....	.....	.....	1 00	1 00	325	325	.....
Geo. Carrison.	3	5	.....	.....	85	.....	.....	.....	1 00	1 00	320	320	.....
James Heppenstall.	2	3	.....	.....	85	.....	.....	.....	1 00	1 00	240	240	.....
Jacob Ryan.	2	3	.....	.....	70	.....	.....	.....	1 00	1 00	200	200	.....
Robert Whalen.	2	2	.....	.....	6	.....	.....	.....	1 00	1 00	200	200	.....
John Pearson.	2	2	.....	.....	80	.....	.....	.....	1 12½	1 12½	200	200	.....
Foster Newman.	2	2	1	.....	75	.....	.....	.....	1 12½	1 12½	200	200	.....
Thomas Wilson.	2	2	.....	.....	60	.....	.....	.....	1 00	1 00	160	160	.....
Richard Laity.	1	2	.....	.....	100	.....	.....	.....	1 00	1 00	156	156	.....
Lowery & Hoar.	2	2	.....	.....	*53	.....	.....	.....	1 00	1 00	150	150	.....
Reed Gordon.	2	2	.....	.....	*50	.....	.....	.....	1 00	1 00	150	150	.....
Booth & Fox.	2	2	.....	.....	*40	.....	.....	.....	1 00	1 00	120	120	.....
William Barker.	2	2	.....	.....	*42	.....	.....	.....	1 00	1 00	120	120	.....
Godfrey Bros.	2	2	.....	.....	*35	.....	.....	.....	1 00	1 00	100	100	.....
Beard & Son.	2	2	.....	.....	*35	.....	.....	.....	1 00	1 00	100	100	.....
Fergus Whalen.	7	8	1	.....	190	.....	.....	.....	1 00	1 00	1,860	1,860	.....
Russell & Dewitt.	4	6	1	.....	220	.....	.....	.....	1 06	1 00	1,220	1,220	.....
D. W. Smith.	3	4	.....	.....	175	.....	.....	.....	1 25	1 25	820	820	.....
Richard Jones.	3	4	.....	.....	190	.....	.....	.....	1 00	1 00	786	786	.....
John McIntyre.	2	2	.....	.....	160	.....	.....	.....	1 00	1 00	480	480	.....
Frank Burdick.	2	3	1	.....	175	.....	.....	.....	1 12½	1 12½	588	588	.....
Foster & Wilson.	3	4	1	.....	260	.....	.....	.....	1 25	1 25	864	864	.....
Totals.....	323	392	36	7	144	.....	.....	.....	.....	.....	53,387	49,709	3,678
Averages.....	.....	.....	.....	.....	.....	.....	.....	.....	\$1 016	\$1 018	.....	.....	.....

* Omitted in estimating average number of working days.

Mercer County—Second District—1895.

[illegible]

Rock Island County - Second District—1895.

[illegible]

Schuyler County—Second District—1895.

[illegible]

Stark County—Second District—1895.

[illegible]

Schuyler County, 1895—Concluded.

Name of firm, com- pany or person op- erating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.													Average value of lump coal per ton at the mine.
	Miners employed.		All other employes.	No. of boys employed under ground.	No. of working days in the year.	No. of kegs of powder used during year.	Casual- ties.		Prices paid per ton for hand mining.		Tons of coal mined.			
	Average dur- ing year.	Highest dur- ing year.					Killed.	Injured.	Sum- mer.	Win- ter.	Total.	Lump coal.	Other grades.	
Abner Winner	7	11	1	...	115	25	...	...	\$0 70*	\$0 75*	1,540	1,540	.....	\$1 37
Rufus Porter	4	6	1	...	130	...	...	...	†	†	1,000	1,000	.....	1 50
Frank Stockton	2	3	...	...	110	...	...	...	75*	75	450	450	.....	1 50
David Fry	1	2	...	...	140	...	...	...	75*	75	275	275	.....	1 50
Cummings & Gore	4	2	1	...	200	97	...	...	45*	45	2,594	1,946	648	1 15
Wm. Kerr & Co.	6	10	2	...	100	180	...	...	60	65	1,700	1,300	400	1 25
Williams & Parish ..	4	6	1	...	125	58	...	...	†	†	1,080	1,080	.....	1 00
Ben Poole	2	3	...	...	130	35	...	...	75	75	615	615	.....	1 00
Spillers & Allen	5	5	1	...	135	25	...	...	70	70	1,890	1,890	.....	80
Henry Croxton	3	3	...	...	118	6	...	...	70	70	880	800	.....	80
Walter Croxton	2	2	...	...	125	4	...	...	70	70	576	576	.....	80
Totals	40	62	7	...	430	...	...	...	...	...	12,600	11,552	1,048	...
Averages .....	...	...	...	...	130	...	...	...	.681	.693	...	...	...	\$1 11

* Men paid for gross weight.

† Men paid by the day.

Stark County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.													Average value of lump coal per ton at the mine.
	Miners employed.		All other employes.	No. of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.			
	Average during the year.	Highest during the year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.	
George Watson	6	8	1	....	200	40	..	..	\$0 75	\$0 75	2,139	2,139	.....	\$1 25
A. W. Higbee	4	6	1	....	190	30	..	..	75	75	1,445	1,445	.....	1 37
James Higbee	6	10	1	....	110	16	..	..	75	75	1,200	1,200	.....	1 37
Robinson Bros.	5	9	1	....	125	12	..	..	75	75	1,120	1,120	.....	1 50
Peter Harburger	3	4	..	....	300	..	..	..	75	75	1,620	1,620	.....	1 50
Stephenson & Son ..	3	4	1	....	165	8	..	..	75	75	880	880	.....	1 50
Oscar Bass	5	7	1	....	210	35	..	..	75	75	1,880	1	.....	1 50
Joseph Swanson	2	4	1	....	130	..	..	..	75	75	450	450	.....	1 50
Foster Cowson	2	2	..	....	135	..	..	..	75	75	120	120	.....	1 50
John Swanson	3	5	..	....	100	..	..	..	75	75	500	500	.....	1 50
Hiram Thurston	2	3	..	....	130	..	..	..	75	75	..	..	.....	1 50
John Price	2	2	..	....	150	..	..	..	75	75	..	..	.....	1 50
Richard Howarth	1	2	..	....	165	..	..	..	75	75	..	..	.....	1 50
Robert Camey	4	6	1	....	200	75	..	..	1 00	1 00	..	..	.....	1 50
John Catton	3	6	2	1	190	34	..	..	75	75	..	..	.....	1 50
Jesse Savill	4	6	2	1	250	70	..	..	87½	87½	..	..	.....	1 50
John Scott	3	5	1	....	175	..	..	..	87½	87½	..	..	.....	1 50
Kewanee Coal Co.	6	8	3	....	140	..	..	..	..	..	..	..	.....	1 50
Aaron Newton	3	4	..	....	140	..	..	..	75	75	..	..	.....	1 50
Henry Newton	1	1	..	....	225	..	..	..	75	75	..	..	.....	1 50
Daniel Phenix	4	6	1	....	190	95	..	..	98	98	..	..	.....	1 50
C. H. Gillette	3	4	1	....	155	..	..	..	75	75	..	..	.....	1 50
C. E. Berg	3	6	1	....	140	..	..	..	75	75	..	..	.....	1 50
Henry Green	5	7	1	....	160	8	..	..	87½	..	..	..	.....	1 50
Totals	83	136	20	1	423	..	..	..	..	..	..	..	..	..
Averages .....	..	..	..	..	122	..	..	..	\$0 75	..	..	..	..	..

* Men paid by the day.

† Not included in arriving at average number of days.

Warren County—Second District—1895.

Name of firm, company or person operating mine.	Town or postoffice nearest the mine.	CHARACTER OF PLANT.										Geological number of seam.	Estimated number of acres worked out during the year.
		Drift, Slope or Shaft.	Power—Steam, Horse or Hand.	Shipping or Local mine.	Hand or Machine mine	Long-wall or Pillar and-Room.	Old, New or Abandoned mine.	Paid weekly, semi-monthly or monthly	Depth of coal below the surface—feet.	Thickness of seam—feet and inches.			
Gordon & Bush	Monmouth ..	Sh.	Hr.	L.	H.	P. R.	O.	W.	55	2		2	1.16
Selkirk & Gilroy	"	"	"	"	"	"	"	S. M.	51	2		2	.81
Andrew Walsh	"	D.	H.	"	"	"	"	W.	50	2		2	.40
Andrew Wolfer	"	"	"	"	"	"	"	"	40	2	6	2	.33
William H. Cook	Alexis	Sh.	Hr.	"	"	"	N.	"	50	4		1	.29
John Simcock	"	"	"	"	"	"	O.	"	40	4		1	.12
B. Liewrance	Youngstown.	"	"	"	"	"	"	"	23	2		2	.50
Thomas Wearmouth	"	D.	H.	"	"	"	"	"	40	2		2	.43
Thomas Lee, Jr	"	Sh.	Hr.	"	"	"	"	"	50	1.10		2	.34
John W. Booten	"	Sl.	H.	"	"	"	"	"	40	2		2	.24
Frank Depoy	"	"	Hr.	"	"	"	"	"	25	2		2	.19
William R. Thomas	"	"	H.	"	"	"	"	"	20	1.8		2	.11
John Little	Roseville	Sh.	Hr.	"	"	"	"	"	22	2.3		2	.33
Samuel White	"	"	"	"	"	"	N.	"	21	2		2	.26
Bird & Pratt	"	"	"	"	"	"	O.	"	27	1.8		2	.25
J. V. White	"	D.	H.	"	"	"	"	"	30	2		2	.20
Joseph Richter	"	Sh.	Hr.	"	"	"	"	"	21	1.8		2	.22
George Farrah	"	Sl.	"	"	"	"	"	"	22	2		2	.14
Thomas Lee, Sr.	"	"	H.	"	"	"	N.	"	10	2		2	.07
Joseph Wilson	Swan Creek.	D.	"	"	"	"	O.	"	35	2		2	.24
Joseph Simpson	"	"	"	"	"	"	"	"	35	2		2	.15
Thomas Caldwell	Avon	"	"	"	"	"	"	"	30	2		2	.97
Fred Ninaker	"	Sl.	Hr.	"	"	"	"	"	25	2		2	.25
Willis Clayton	"	"	"	"	"	"	"	"	25	2		2	.13
Totals (24 mines)													8.01
Averages													

* Coal all consumed at their clay works, at Roseville.

Warren County, 1895—Concluded.

Name of firm, company or person operating mine.	Miners employed.		All other employees.	No. of boys employed under ground.	Running days in the year.	Kege of powder used during year.	Casualties—Killed, injured.	Prices paid per ton for hand mining.		Tons of coal mined.			Average value of lump coal per ton at the mine.
	Average during the year.	Highest during the year.						Summer.	Winter.	Total.	Lump coal.	Other grades.	
Gordon & Bash.....	7	7	2		200			\$1 12 ¹ / ₂	\$1 12 ¹ / ₂	1,980	1,980		\$1 75
Seikirk & Gilroy.....	5	5	1		195			1 12 ¹ / ₂	1 12 ¹ / ₂	1,365	1,365		75
Andrew Walsh.....	5	5			235			1 12 ¹ / ₂	1 12 ¹ / ₂	675	675		75
Andrew Wotter.....	5	5			175			1 12 ¹ / ₂	1 12 ¹ / ₂	500	500		75
William H. Cook.....	5	5	1		139	39		75		500	500		75
John Simcock.....	5	5	1		80	30		75		400	400		75
B. Llewrence.....	4	4	1		230			1 25	1 25	725	725		75
Thomas Wearmouth.....	4	4			190			1 25	1 25	725	725		75
Thomas Lee, Jr.....	3	3			195			1 25	1 25	520	520		75
John W. Booten.....	3	3			140			1 25	1 25	400	400		75
Frank Depoy.....	3	3			115			1 25	1 25	320	320		75
William R. Thomas.....	2	2			75			1 25	1 25	160	160		75
John Little.....	5	9	1		110	4		1 25	1 25	612	612		75
Samuel White.....	3	4	1		115			1 25	1 25	440	440		75
Bird & Pratt.....	2	2			130			1 25	1 25	355	355		75
J. V. White.....	2	4			120			1 25	1 25	345	345		75
Joseph Richter.....	2	2			115			1 25	1 25	320	320		75
George Farrah.....	2	2			75			1 25	1 25	225	225		75
Thomas Lee, Sr.....	1	1			100			1 25	1 25	120	120		75
Joseph Wilson.....	3	3			105			1 25	1 25	400	400		75
Joseph Simpson.....	2	2			70			1 25	1 25	260	260		75
Thomas Caldwell.....	10	14	1		130			1 25	1 25	1,642	1,642		75
Fred Ninaker.....	3	4			110			1 25	1 25	425	425		75
Willis Clayton.....	2	4			100			1 25	1 25	301	301		75
Totals.....	73	99	9		73					14,191	14,191		
Averages.....					145			\$0 162	\$0 168				\$1 81

+ Not included in estimating average number of running days.

Recapitulation of Coal Mines by Counties—

COUNTIES.	MINES.						MINERS.									
	Number of mines.	Mines in local trade.			Estimated number of acres worked out during the year.	No. of miners and others employes.				Average number running days.	Number of kegs of powder used.	Casualties.				
		Shipping mines.	Mines in local trade.	New mines.		Abandoned mines.	Average No. of miners.	Highest No. of miners.	No. of other employes.			No. boys under ground.	Killed.	Widows.	Children.	Injured.
Bureau.....	21	8	13	5	2	160.8	2,235	2,636	639	21	171	430	2	1	4	36
Hancock.....	6	1	5	2	2	4.97	35	52	3	...	189	...	1	1	5	...
Henry.....	32	4	28	6	2	58.15	322	491	69	2	196	145	...	...	...	4
Knox.....	39	2	37	6	7	17.24	206	376	39	3	168	298	2	1	3	2
Marshall.....	16	5	11	5	6	58.65	573	812	147	5	164	8,961	3	1	1	53
McDonough.....	41	5	36	7	7	22.59	823	392	39	7	144	...	...	...	...	...
Mercer.....	16	7	9	1	...	103.62	603	714	264	34	197	21,195	4	2	4	8
Rock Island.....	16	1	15	5	3	14.54	112	190	21	...	182	1,276	...	...	...	...
Schuyler.....	11	1	10	2	1	3.60	40	62	7	...	130	430	...	...	...	...
Stark.....	24	...	24	4	6	6.16	83	126	30	1	182	423	...	...	...	...
Warren.....	24	...	24	3	2	8.01	73	99	9	...	145	73	...	...	...	...
Totals.....	246	34	212	46	41	438.83	4,605	5,940	1,244	73	.....	33,241	12	6	17	93
Averages.....	...	...	...	...	...	...	...	...	...	...	170	...	...	...	...	...

Whole number of openings reported in 1894, 241.

Number of new mines or places opened during the year, 46.

Number of mines exhausted or abandoned during the year, 41.

Whole number of openings reported for 1895, 246.

Second Inspection District, 1895.

COUNTIES.	PRICES AND PRODUCTS.						Average value of lump coal per ton at the mine.	Average value of other grades per ton.	Aggregate value of the total product.
	Average prices for hand-mining.			Tons of coal mined.					
	Sum-mer.	Winter.	Aver-age for the year.	Total tons.	Tons of lump.	Tons of other grades.			
Bureau	\$0.731	\$0.803	\$0.779	884,541	716,313	118,228	\$1.296	\$0.799	\$972,409
Hancock	0.978	0.976	0.976	10,274	10,186	88	1.436	.....	14,674
Henry	0.825	0.843	0.837	135,967	127,494	8,483	1.426	0.75	186,277
Knox	0.735	0.736	0.736	58,330	55,502	2,828	1.188	0.75	66,643
Marshall	0.689	0.764	0.739	346,281	275,070	71,211	1.215	0.80	365,878
McDonough	1.016	1.018	1.018	53,387	49,709	3,678	1.491	.....	76,076
Mercer	0.664	0.731	0.708	462,011	348,681	113,330	1.274	1.00	492,970
Rock Island	0.834	0.834	0.834	45,585	42,237	3,348	1.50	0.75	64,477
Schnyler	0.681	0.693	0.689	12,600	11,552	1,048	1.115	.....	13,310
Stark	0.797	0.798	0.797	22,131	22,131	.....	1.436	.....	31,772
Warren	1.162	1.163	1.163	14,191	14,191	.....	1.81	.....	25,679
Totals .....	.....	.....	.....	1,995,298	1,673,056	322,342	.....	.....	\$2,809,165
Averages	\$0.7545	\$0.7967	\$0.794	.....	.....	.....	\$1.302	\$0.844	.....

THIRD INSPECTION DISTRICT--1895.

MR. GEORGE A. SCHILLING,

Secretary Bureau of Labor Statistics, Springfield, Illinois:

DEAR SIR:—I herewith submit to you the twelfth annual report of the Third Inspection District for the year ending July 1, 1895.

This report gives the particulars of all coal mines reported, showing the total product and the number of employes in and around the mines. It also gives the fatal and non-fatal accidents that have occurred during the year, with the number of dependents and the nature and the cause of accidents.

Total mines.....	262
Shipping mines.....	78
Local mines.....	186
New mines.....	26
Abandoned mines.....	15
Average number of miners employed.....	3,581
Highest number of miners employed.....	5,302
Number of all other employes.....	1,405
Number of boys under 16 years of age.....	165
Total tons of all grades produced.....	2,819,076
Tons of lump coal.....	2,331,088
Tons of other grades.....	488,048
Tons of nut coal.....	58,880
Aggregate value of total product.....	\$2,400,191
Average value of lump coal per ton.....	\$0.9496
Average value of nut coal per ton.....	0.515
Average price paid for hand-mining—summer.....	0.645
Average price paid for hand-mining—winter.....	0.692
Average price paid for hand-mining—year.....	0.6759
Estimated number of acres of coal worked out.....	548.82
Average number of days of operation during the year.....	196.3
Number of kegs of powder consumed.....	72,927
Number of fatal accidents.....	16
Number of non-fatal accidents.....	59
Number of employes to each fatal accident.....	413
Number of employes to each non-fatal accident.....	112
Tons of coal produced to each fatal accident.....	176,192
Tons of coal produced to each non-fatal accident.....	47,781
Number of persons dependent.....	22
Number of boilers in use at the mines.....	
Number of mining machines.....	
Number of men employed at machine mines.....	

Coal Production by Counties, with increase or decrease in each, for the years ending July 1, 1894 and 1895.

COUNTIES.	TOTAL OUTPUT OF LUMP COAL—IN TONS.		Increase— Tons.	Decrease— Tons.
	1894	1895		
Cass	18,300	14,120	820	.....
Fulton	444,896	379,488	.....	65,458
Logan	154,035	95,535	.....	58,490
McLean	125,053	137,095	12,042	.....
Menard	235,872	187,857	.....	48,016
Peoria	517,957	381,858	.....	136,074
Tazewell	85,399	82,066	.....	3,313
Vermillion	842,615	936,596	93,981	.....
Woodford	150,150	116,416	.....	33,734
Totals	2,569,368	2,331,028	106,845	345,085
Decrease tons .....	.....	.....	.....	238,240

Improvements.—The Menard Coal Company, Greenview, Menard county, has constructed 2,000 feet of air-way on the south side of their mine, which has largely increased the volume of air circulating through their mine.

The Chicago & Minonk Coal & Tile Company, at Minonk, has put in four new steam boilers and placed a new pair of hauling engines in the bottom of their hoisting shaft. The ventilating current of this mine has been somewhat improved, but the air-way must be enlarged the entire length of the workings before the ventilation can be put in first class condition. Otherwise, a new air shaft should be put down near to the face of the workings.

The McLean Coal Company of Bloomington, has sunk a shaft from the middle to the lower vein, and drop the coal down to the lower vein where they have a double tail rope system of haulage. The air current now passing down this shaft has largely increased the volume of air circulating, by reducing the length of the air-way one-half.

The Muncie Coal Company has sunk a new air and escape shaft and placed the ventilating fan on the surface, these improvements have been of great benefit to the ventilation.

The Kelleyville Coal Company, at Kelleyville, Vermillion county, has constructed 3,600 feet of new airway, parallel with their main entries up to the 7 and 8 cross entries. This will put the mine in good condition as far as ventilation is concerned.

The Pawnee Coal Company of Westville, Vermillion county, has put in an air-compressing plant. Compressor is 19x30 cylinders, 4 mining machines and running 6 air drills. They have also put in two new steam boilers with 20-foot diameter fan, and made 3,600 feet of new air-way, and built 5 overcasts; these improvements have placed this mine in a first class condition.

E. Little & Co.'s mine, at Wesley, has been rebuilt, and improved machinery has been put in. The hoisting shaft has been made two feet larger. A Brazil fan, ten feet in diameter, has been put on the air-shaft, *which will greatly add to the ventilating power.* The tower and other buildings are of a substantial nature and will therefore enable this company

to get a larger output of coal, than they formerly produced. They have also put in two new self-dumping cages. This mine is now one of the most substantial in Tazewell county.

The Glenburn Coal Company, shortly after work was resumed after the strike in 1894, put in a new air-compressing plant with 13 Harrison mining machines and two Jeffrey chain mining machines. The compressor is a Norwalk 22x24. The ventilation of this mine has been defective, owing to air-ways being closed during the strike of 1894.

The Canton Coal & Gas Company has put in a 10-foot fan at their mine which has added largely to the volume of air. The system of ventilation previous was with a steam-jet; the boiler power being insufficient for all purposes drowned the mine, and the jet did not give very much of an air current and the miners suffered for want of air.

The Maplewood Coal Company, Farmington, Fulton county, has, during the last year, made a good deal of improvement in the ventilation of their mine, having enlarged the area of the return airway, and built five over-casts, which makes five different splits in the air currents. The system of ventilation previous to this change was the continuous air currents, so that when shots were fired at noon, the rooms were not free of smoke during the afternoon.

New Mines.—The Stuart Coal Company, Anchor, McLean county, has sunk a new shaft one-fourth of a mile south of Anchor, on the side of the Illinois Central railroad. The shaft is 310 feet deep and the seam of coal is 3 feet 6 inches thick, with fire clay bottom. This company is going to put in a first-class plant, having already begun making brick to construct their buildings on top. They control 1,300 acres of land in that vicinity and expect to have a large output of coal.

The Westville Coal Company, Westville, Vermillion county, has sunk a new shaft one mile west of the village of Westville, on a branch of the C. & E. I. R. R. This plant is first-class in every particular, consisting of three Atlas steam boilers, engines 18x36 with spiral drums, the diameter of which is 6x4 feet 6 inches. They have the latest improved screens and an electric plant from which the buildings on top are lighted when required, and both sides of the bottom of the shaft are lighted by electricity. Also three Jeffrey chain cutting mining machines are in operation. The company intends to make this a machine mine exclusively.

Prospective Mines.—A. C. Daniels & Co., Danville, have sunk a new shaft eight miles west of Danville, in Vermillion county, on the main line of the Wabash railroad. The shaft is 170 feet to the second seam of coal, having passed through a seam of coal 6 feet thick 125 feet from the surface. The buildings are built of brick; engines 16x32; two boilers 22x5 with 22 six-inch flues. This plant is of first-class character and will add largely to the output of coal in Vermillion county.

The Kelleyville Coal Company, Danville, has sunk a new shaft one-fourth of a mile north of Westville. The shaft is 188 feet to the coal, which is 7 feet thick and of first-class quality, with 88 feet of sandy shale over the coal. The shaft is 7x16 inside of the curbing. The air and escape shaft will have an air chamber 7x9, with a cage chamber 4½x9. The engines are 18x36; two boilers 20x6 with two flues 22 inches in diameter. The tower buildings are of a substantial character. The company intends making this one of the best mines in the State. They will adopt the three entry system on their main entries.

H. E. Evans and Daniel Reigle have sunk a new shaft 3 miles west of Danville, on the side of the Big Four railroad. The shaft is 76 feet deep to the coal seam, which is 6 feet thick. This is not a substantial plant, the equipment and construction of the top part being light.

Frank Seymour & Son, Colfax, have sunk a new mine one mile north of the town, on the side of the Illinois Central. Very little has been done since the shaft was sunk.

Changes of Ownership.—The Consolidated Coal Company, of St. Louis, has leased their drift mine, formerly owned by Millard & Wolschlag, of Peoria, to Newsam Bros., of Kingston. It has also leased the Star mine to the same parties. A number of improvements have been made in these mines, especially in the ventilation, the volume of air being very much increased in the Star mine.

Joseph Picton & Co. have leased the mine formerly operated by John Emons, and lately operated by Williams & Co. This mine is located one and one-half mile west of Farmington, in Fulton county.

The Peoria Coal & Mining Company, at Wolcott, became financially embarrassed, and in the month of November, 1894, was placed in the hands of a receiver, Mr. James Stirritt, the former superintendent. Very little work has since been done. In this they have an electric mining machine working.

The coal shaft at Hanna City, which was operated last year by Newsam Bros., under a lease which expired in October, 1894, is now operated by Messrs. McCullough, the former owners.

Labor Difficulties.—April 10, 1895, at the Chicago & Kansas City Coal Company mine, situated at Petersburg, two men were discharged for loading dirty coal, after being warned by the superintendent not to do so. The miners came out on strike and remained out three days, and then proposed to return to work on the same terms as they came out on, without the two men being reinstated. As it was about the time for re-adjustment of the wage scale, the company made a proposition of 50 cents per ton over 1½ inch screen or \$2 per day for blasters and \$1.75 per day for loaders. The miners refused to accept, and remained idle for six weeks, when they returned to work at 40 cents per ton over a 7-8-inch screen, and 50 cents over 1½-inch screen, engine or forked coal to be paid 50 cents gross, the company to employ such men as they wished to hire, and only sufficient to give reasonably steady work. Price of mining before the strike: 40 cents gross and 45 forked coal.

The miners employed at Isaac Wantling's mine, Pottstown, came out on a strike February 28, 1895, against a reduction of 10 cents per ton; from 50 to 40 cents per ton. The miners stated that Mr. Wantling, in making a settlement with them at the termination of the strike, in August, 1894, agreed to pay them 50 cents per ton for mine run coal until May 1, 1895. Mr. Wantling stated that 50 cents per ton was to be the rate if the other mines in the district paid the same. The other mines had been working at 40 cents per ton for two months previous to Mr. Wantling making this reduction. After being on a strike for six weeks they returned to work at the company's terms.

Fatal Accidents.—July 5, 1894, Joseph Sleeth, aged 54, widower, with two children, employed as a miner at James Millard's mine at Wesley, as fatally injured. Deceased and his son were working in No. 1 room

in first west entry and at 11:30 a. m. had prepared two shots to be fired. He told his son to stand on the roadway of his room and hold a light for him, when he would light the two shots which were placed one on each side of his roadway. He put his light to one of the shots, then turned to light the other, when he seemed to become confused, and could not find the position of the other shot. When he did find it and put his light to the squib, he turned to leave the room, but had only gone about 15 feet from the face of his room, when the shot he had lighted first, exploded. The coal flying from it struck him on the head and shoulders and he was so severely injured that he died at 10 a. m. on July 6. Robert Taylor, a miner working in the next room to him, offered to light one of his shots for him, but he said he could do it himself as he had done the same often before when he had two shots to light.

July 7, 1894, Charles Rogers, aged 59 years, married, was asphyxiated. Deceased was living near the old escapement shaft, about half a mile southwest of No. 5 mine, owned by the Grape Creek Coal Company. The family used the escapement as a summer cellar in which to keep their milk cool. On the day named, he sent his son, a boy of 14 years of age, to bring something from there. The boy had gone down three or four feet below the surface, when he was overcome by gas coming from the abandoned workings of the mine. The father went down to his son's rescue and lifting the boy, handed him to his wife. The moment he had done so, he lost all control of himself and fell backwards down the shaft to a platform 8 feet down, and, and from ten to fifteen minutes elapsed before he was taken out. It was then found that he was dead. The top of the shaft was properly fenced off in compliance with the law. The verdict of the coroner's jury was that his death was accidental. He left a widow and five children.

October 1, 1894, Edward Gregory, aged 21 years, married, was employed by the Athens Coal Company as a mule driver. The mule kicked him in the stomach and an operation became necessary, which resulted fatally. He died on October 7th, leaving a widow.

November 20, 1894, Walter Green, colored, aged 25, married, no children. Deceased was a driver employed by the Kelleyville Coal Co., in their No. 2 mine at Kelleyville, five miles from Danville. He was riding on the front of his trip, with one foot resting on the pit-car and the other on the tail-chain. It is supposed that he fell off in front of the cars. Being longer than usual in coming to the bottom of the shaft with his trip, the other drivers went to look for him and found him lying under the loaded cars. He was dead when found.

November 26, 1894, James Dempsey, a miner, aged 42 years, employed at Newsam Bros.' mine at Kingston, 18 miles from Peoria. Deceased and his partner, James Aspinwall, had prepared two blasts to be fired at 4:45 p. m., in their room, No. 18, on first west entry. They had two kinds of squibs with which to fire the blasts, one of which, the Dadow & Beadle squib, requires three minutes to burn before exploding the blast. The deceased being in favor of using this kind, placed one of them in each needle hole and told Aspinwall to light them. One of the blasts was on the right rib of the room and the other was 12 feet from the right rib or pillar. When the light was put to them and Dempsey

and his partner had gone on to the entry to await the discharge of the blasts, Dempsey got very excited, because of the squib hanging fire so long, and picked up his needle and another squib to go in and relight the blasts. His partner and others on the entry tried to stop him from going back in his room, but he would go and had just got near the face of his room when the blast went off and struck and threw him a distance of 38 feet against the entry pillar. He was horribly injured about the head and shoulders and died in 20 minutes after receiving the injuries. He was a widower and lived with his mother. He had one child 17 years of age.

January 4, 1895. James Moore, aged 28 years, married, left a widow and two children, was employed as a miner by the Kelleyville Coal Company at their No. 2 mine at Kelleyville, in Vermilion county. At 6:30 a. m. the deceased was standing at the lower landing waiting to get down in the mine. A cage load of men had just been lowered, which left the deceased and another man, James Morgan, for the next cage. The signal was given to the engineer that all was clear of the other cage. He then lowered the cage from the upper landing about 12 feet, or about half the distance between the upper and lower landing and stopped the cage to go in and fire the boiler furnace. The men hearing the safety gates strike on the top landing, supposed that the cage was being lowered to the surface landing. The weather being cold and the hoisting shaft being the upcast, the warm air from the shaft coming in contact with the cold air, caused a thick fog all about the shaft. A light could not penetrate the fog to enable them to see the cage. The mine manager, who was attending the gates at the lower landing, opened the gate about three feet, with the gate in front of him. He held a light into the shaft to see if he could not see the cage which had been stopped 12 feet above the surface. Just as he opened the gate, and before he could turn around, the deceased walked past him and into the open shaft, and fell a distance of 190 feet to the bottom. Henry Brown, who was attending to the cages in the bottom, said he lifted deceased out of the sump and had him brought to the surface at once, where he expired 20 minutes later. James Morgan said that deceased, without asking if the cage was all right, walked into the shaft. The coroner's jury returned a verdict of accidental death.

February 22, 1895. William Hammel, aged 40, married, employed by the Chicago & Minonk Coal and Tile Company in their mine, at Minonk, cleaning the track on night shift. On the morning of February 22, 1895, he had cleared a fall of rock in the third west entry, and at 4 a. m. was pushing a pit-car up hill to the sixth east. On coming near the sixth east entry, he met the night shift driver coming down the hill with a mule and a trip of cars, loaded with rock; Hammel stood on the track and waved his light to stop the driver, but owing to it being down hill he was unable to do so, and the mule and trip ran on to him with his empty car, turning the car across the track, crushed him between the car and the pillar, injuring him internally and killing the mule. It was thought at the time of the accident that he would recover, but he died three months after the accident, May 18, 1895. In connection with this, I found at 28 feet from where he was injured, a man-hole, in which he could have gone instead of trying to stop the trip. Orders had

been given him by the pit-boss not to take cars up this hill, but he thought he could not get a car in the sixth east to work with. He left a widow.

February 28, 1895, James Kieble, aged 44 years, was employed as a miner in the Kelleyville Coal Company No. 2 mine, Westville. Deceased had just put a light to a shot in his room and came out on the entry. He thought the squib had failed to go, and went back into his room to relight another. Before he got to where the shot was placed it went off and the coal flying from it struck him, breaking one leg and one arm and injuring his head seriously. He was removed to the hospital at Danville, where he died on the 4th of March.

March 2, 1895, John Jones, aged 35 years, widower, with two children, employed as a miner by the Pawnee Coal Company, Westville, was instantly killed by a fall of rock at 9 a. m. in room No. 30 on the third south entry. The deceased knew of the dangerous condition of the roof, and his partner, Bertram Stewart, called his attention to the danger of going under it and Jones took his pick and knocking on the roof said to Stewart there was no danger, that it would stay up all day, and then went to work under it. A few minutes afterwards it fell and killed him. The verdict of the coroner's jury was that the deceased was accidentally killed.

March 20, 1895, Edward Lane, aged 35 years, married, was employed as a miner by the Sholl Bros. Coal Company in their No. 2 mine, six miles south of Peoria. Deceased was working alone, withdrawing entry pillars, and had taken a strip off the pillar between the entries for a distance of thirty feet, where at this point was a cross cut into the other entry. He had drilled a shot hole five feet back from the cross cut, and started to mine under the coal in the cross cut, with the intention, it is supposed, of firing what is known as a loose end shot. The driver left him a few minutes before 12 o'clock to go to dinner, and when he returned at 1 p. m. found him lying under a rock four feet by five and ten inches thick. After getting help from two other men and raising the rock so that he could be taken from under it, it was found that he was dead. There was no one present when the accident occurred. He left a widow and four children.

March 20, 1895, Henry Countryman, aged 55 years, loader, was employed by the Glenburn Coal Company, near Danville, in the Glenburn mine. At 7 a. m. he went into room No. 3, on the main east entry to load coal, and was told by the timberman that there was a bad rock in that room, and not to go under it, but wait there until he got his tools, when he would secure it with timber. He said to the timberman that he was an old miner and could take care of himself. He then went into the room and lifted a pick to pull down a piece of loose coal, when the rock, which was ten feet long and two and a half feet wide, by twelve inches thick, fell on him, killing him instantly. He was a single man.

March 23, 1895, Thomas Casey, aged 34 years, was fatally injured in No. 4 mine at Danville, operated by the Consolidated Coal Company, of St. Louis. Deceased and his partner, Joseph Corbett, were working in room No. 18, in the ninth west entry. They had fired a shot at noon *which failed to bring down the coal.* They then tried to mine it off and *got a crow bar to bar it down, but finding they could not get it down*

that way, they concluded to leave it and fire another shot, which was placed ten feet from the standing shot. The deceased was shoveling some loose coal at one end of the standing shot, when he noticed it giving away. He became frightened and ran past in front of the coal just as it rolled over. It struck him on the left thigh and knocked him down, injuring him internally. The coal that struck him weighed about 150 pounds. He died six hours after receiving the injuries. He left a widow and two children. He was not a practical miner, but his partner was a good one. If the deceased had not moved from where he was working the coal in falling would not have caught him.

May 22, 1895, James Joy, Miner, aged 37 years, was fatally injured in the Stewart Coal Mining Company's mine at Anchor, McLean county. The deceased, along with other miners, was putting in large timbers, in the bottom of the shaft. He was cutting a ditch in the fireclay under the coal, in which to put a sill timber, on which to place the upright timbers. Some loose coal was on the pillar on his left, with a sprag under it to prevent it from falling over. The deceased had cut forward to the sprag, and removed it from under the coal, and failed to replace it behind him, thinking the coal would stand until he had finished the cutting. A few minutes after the sprag had been taken out, the coal fell and crushed him in the ditch, injuring him so seriously that he died at 1:30 o'clock P. M., twenty minutes after being taken on top.

May 23, 1895, John Killiam, aged 28, single, employed as a miner in the Pawnee Coal Company's mine, Westville, Vermilion county, was seriously injured by a fall of rock. The deceased and his partner were at work in the main east entry, which had just been cut through a slip, and at 4 P. M. he was drilling a hole, his partner was loading a car of coal, when suddenly a large mass of rock fell off the slip, and one piece, weighing three hundred pounds, struck him, breaking his leg and arm and injuring him internally. He died at nine o'clock that night. The pit-boss had warned him that morning to take down the rock before doing any other work, and the men in the adjoining entry also called his attention to the dangerous condition of the rock.

June 4, 1895, the body of an unknown man was found at the bottom of the Lincoln Coal Company's shaft at Lincoln, Logan county. Daniel Bodwell, cager, went down in the mine about 7 o'clock A. M. to start the pump, and after running the pump two hours he went to measure how far the water was down in the sump, when he found a large hole in the planks with which the sump was covered over. On making a further examination he found the dead body of a man under the timber. Later, at the coroner's inquest, the body was identified as that of John Magram, of Malvern Junction, Arkansas. How he came to fall down the shaft a distance of 265 feet is not known. The verdict was that he came to his death by falling down the shaft.

June 28, 1895, Edward Kinney, machine helper, single, aged 27 years, was employed in the Glenburn Coal Company's mine at Glenburn, Vermilion county. At 7:30 A. M. he and his partner commenced mining with the machine. During the night the shotfirer had fired a shot in the corner of the room where the machine men had made one under-cut *before quitting time the day previous, this shot having broken up the al, left an open end,* and Kinney and his partner examined the coal

and decided there was no danger of the coal falling, and started the machine undercutting. They had been working about thirty minutes when a large piece of coal fell without warning, striking Kinney, who was shoveling slack back from the machine, and injured him so seriously that he died a few minutes after the accident.

The following tables give the fatal and non-fatal accidents in condensed form:

Fatal Casualties—Third District—1895.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widow.	Children.	Single.	Dependents.	Cause of Accident.
1894.										
July 5	Joseph Sleeth.....	54	Miner.....	Wesley City.	1	1	2	0	2	Coal flying from shots.
July 7	Chas. Rogers.....	59	Miner.....	Grape Creek.	1	1	5	0	2	By gas from old mine..
Oct. 1	Edward Gregory.....	31	Driver.....	Athens.....	1	1	0	0	1	Killed by kick of a mule
Nov. 30	Walter Green.....	35	Driver.....	Kelleyville..	1	1	2	0	3	Run o'er by load'd pit c'r
Nov. 26	James Dempsey.....	42	Miner.....	Kingstone...	1	1	1	0	2	Coal flying from shot..
1895.										
Jan. 4	James Moore.....	28	Miner.....	Kelleyville..	1	1	2	0	3	By falling down shaft..
Feb. 22	William Hammel.....	40	Road man...	Minonk.....	1	1	0	0	1	Caught by load'd pit c'rs
Feb. 28	James Kerbie.....	44	Miner.....	Kelleyville..	0	0	0	1	0	Coal flying from shot..
Mar. 2	John Jones.....	35	Miner.....	Newtown.....	*1	0	2	0	2	By falling rock.....
Mar. 30	Edward Lane.....	35	Miner.....	Bartonville..	1	1	4	0	5	" " " " " " " " " "
Mar. 30	Henry Countryman.....	55	Loader.....	Glenburn....	0	0	0	1	0	" " " " " " " " " "
Mar. 23	Thomas Casey.....	34	Miner.....	Tilton.....	1	1	0	0	3	Killed by falling coal..
May 23	James Joy.....	37	Miner.....	Colfax.....	1	1	3	0	4	" " " " " " " " " "
May 25	John Kilham.....	28	Miner.....	Danville.....	0	0	0	1	0	Killed by falling rock..
June 4	John Ingram.....	26	Unemployed.	Malvern, Ark	0	0	0	1	0	Falling down shaft.....
June 28	Edward Kinney.....	27	Mach'e help'r	Glenburn....	0	0	0	1	0	By falling coal.....
	Totals.....				11	10	23	5	28	

* Widower.

Recapitulation of Fatal Accidents.

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Athens.....	1	Drivers.....	2	Falling coal.....	3	Athens Coal Co.....	1
Bartonville....	1	Helper.....	1	Falling down shaft	2	Consol. Coal Co.....	1
Colfax.....	1	Loader.....	1	Falling rock.....	4	Glenburn Coal Co.....	2
Danville.....	1	Miners.....	10	Fly'g col'l'm sh'te	3	Grape Creek No. 5....	1
Glenburn.....	2	Roadman.....	1	Gas from old mine	1	Kelleyville Coal Co...	3
Grape Creek....	1	Unemployed..	1	Kicked by mule...	1	Kingstone Coal Co....	1
Kelleyville.....	3			Pit cars.....	2	Lincoln Coal Co.....	1
Kingstone.....	1					Minonk Coal Co.....	1
Malvern Junct..	1					Pawnee Coal Co.....	1
Minonk.....	1					Sholl Bros.....	2
Newtown.....	1					Stewart Coal Co.....	1
Tilton.....	1					Wesley Coal Co.....	1
Wesley City....	1						
Totals.....	16		16		16		16

Non-Fatal Casualties—Third District—1895.

Date.	Name.	Age.	Residence.	Married.	Children.	Single.	Dependents.	Character of Injury and Cause of Accident.	Time lost—days.
1894.									
July 5	Leslie Shumacher...	16	Missionfield...			1		Ankle dislocated by falling off scaffold.	30
Aug. 2	M. Henry.....	31	"			1		Struck with pick on thigh.	7
" 8	John Mauck.....	28	Batestown...	1	4			Back injured by falling rock.	60
" 24	W. E. Bracewell...	46	Tilton.....	1	4			Back injured by falling rock.	65
" 31	W. H. Frazer.....	33	Fairmount...	1	3			Leg broken by falling rock.	75
" 31	Wm. Moss.....	59	Missionfield...	1	8			Head cut and body bruised by pit cars.	25
Sept. 1	Jas. Waritz.....	35	Coifax.....			1		Leg broken by falling rock.	55
" 1	John Yarling.....	45	Westville...	1	7			Leg broken by pit cars.	70
" 3	Alf Sanderson.....	36	"			1		Arm and ribs broken by falling rock.	65
Oct. 26	Michael Thornton...	30	Chenoa.....			1		Hip dislocated and leg broken by falling rock.	225
Nov. 1	J. W. Duryea.....	53	Canton.....			1		Leg fractured by coal flying from shot.	26
" 7	John Moses.....	30	Westville...	1	3			Head injured by pit cars.	40
" 8	Wm. Sandusky.....	32	Missionfield...			1		Toe broken by falling rock.	18
" 16	Chas. Lynch.....	21	Bloomington			1		Foot injured by pit cars.	20
" 16	Frank McGowan.....	35	"			1		Foot injured by falling rock.	15
" 16	Wm. Mann.....	45	"			1		Internal injuries by falling rock.	30
" 19	John Southey.....	62	Peoria.....	1	1			Collar bone broken by falling rock.	60
" 21	Frank Johnston...	33	Kingston...	1	5			Leg bruised by falling off trip.	15
" 22	Wm. 'Ichlan.....	33	Athens.....			1		Loss of eye by piece flying off wedge.	15
" 22	John Boyle.....	28	Kelleyville...			1		Back injured by falling rock.	14
" 23	Frank Strinbaugh...	54	Roanoke.....			1		Leg broken by falling coal.	80
" 24	Geo. Kapple.....	50	Kelleyville...	1	4			Head and neck bruised by falling coal.	14
" 24	John Gestrof.....	38	Kelleyville...			1		Collar bone broken by falling rock.	65
" 27	Wm. Scarce.....	65	Westville...	1	3			Breast and leg bruised by falling rock.	20
" 29	Duley Able.....	30	Coifax.....	1	2			Foot dislocated by cage running away.	175
" 29	John McDonald....	36	"	1	4			Knee dislocated by cage running away.	175
" 30	Chas. Mitchell.....	43	Bloomington			1		Toe bruised by falling rock.	25
Dec. 3	Peter Gincos.....	33	Kelleyville...	1	3			Leg injured by falling rock.	15
" 11	Robert Huston.....	12	Danville.....			1		Arm broken.	60
" 22	Roy Cadwell.....	16	Elmwood.....			1		Back injured by falling coal.	12
" 26	F. H. Brown.....	29	"	1	2			Toe injured by falling rock.	7
1895.									
Jan. 2	Edward Smoke.....	34	Athens.....			1		Leg injured by pit cars.	30
" 3	Geo. Jones.....	23	Elmwood.....			1		Ankle injured by falling rock.	9
" 8	James Haynes.....	26	"	1	4			Hand injured by falling rock.	6
" 10	Martin Kelly.....	33	"	1	3			Toe injured by falling rock.	8
" 12	Jas. Wheatcroft...	40	"	1	8			Ribs broken by falling rock.	48
" 23	Wm. Milton.....	30	Athens.....			1		Leg broken by falling coal.	60
Feb. 1	Fred Waters.....	18	Elmwood.....			1		Ribs broken by falling coal.	39
" 19	John Wyable.....	30	"	1	2			Face burned by powder explosion.	69
" 19	Jas. Cadwell.....	26	"	1	2			Face burned by powder explosion.	18
" 22	Jeff Royce.....	46	Fairmount...	1	3			Foot bruised by falling rock.	12
" 27	Chas. Steirs.....	28	Danville.....	1	3			Body burned by powder explosion.	120
Mar. 3	John Sacreston...	30	Fairmount...			1		Back and hips injured by falling rock.	180
" 13	Daniel Miller.....	36	Batestown...	1	7			Hips and leg injured by falling coal.	75
" 16	Henry Killion.....	33	Reed City...			1		Back injured by falling rock.	10
" 23	Geo. McDowell.....	49	Grape Creek...	1	4			Back injured by falling rock.	25
April 1	Wm. Vice.....	48	Newtown...	1	8			Hands injured by falling rock.	21
" 4	Isaac Meeks.....	24	Glenburn...	1	2			Hip and leg injured by pit cars.	21
" 9	Albert Blake.....	26	"	1	1			Leg injured by falling coal.	25
" 20	Geo. Goble.....	23	Missionfield...	1	1			Head injured by falling off tippie.	6

Non-Fatal Casualties--Third District--1895--Concluded.

Date.	Name.	Age.	Residence.	Married.	Children.	Single.	Dependents.	Character of Injury and Cause of Accident.	Time lost—days.
1895.									
May 11	James Connors.....	39	Elmwood....	1	1	1	1	Body injured by falling coal.....	8
" 17	Wm. Childs.....	30	Dunfermline.	1	1	1	1	Back injured by falling slate.....	20
" 17	Oscar West.....	30	Missionfield..	1	1	1	1	Body injured by pit cars.....	21
" 21	Lewis Johnholtz....	18	Danville.....	1	1	1	1	Ankle dislocated by falling slate.	55
" 23	Dan Layden.....	37	Elmwood.....	1	3	1	3	Body injured by falling rock.....	9
" 29	Albert Boffo.....	29	Dunfermline.	1	2	1	2	Head injured by flying coal from shot.	80
June 4	Paul Reiner.....	27	Glenburn.....	1	1	1	1	Foot injured by falling rock.....	10
" 6	Jacob Magge.....	30	Danville.....	1	3	1	3	Foot injured by falling rail.....	7
" 14	Barney Carney.....	28	Elmwood.....	1	1	1	1	Collar bone broken by falling coal	1
	Totals—59.....			34	108	25	104		367

* Not at work July 1, 1895.

An average of 42½ days lost time to the 58 men reported.

Recapitulation of Non-Fatal Accidents—First District—1895.

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Athens.....	2	Cagers.....	2	Cages.....	2	Athens Coal Co.....	2
Batestown.....	2	Car couplers..	2	Falling coal.....	10	Colfax Coal Co.....	3
Bloomington.....	4	Drivers.....	5	Falling off tippie.....	1	Consolidated Coal Co..	12
Canton.....	1	Firemen.....	1	Falling off trip.....	1	Davies Coal Co.....	1
Chenoa.....	1	Laborers.....	4	Falling off scaffold..	1	Delaware Coal Co.....	3
Colfax.....	3	Loaders.....	3	Falling rock.....	29	Duryea & Co.....	1
Danville.....	4	Miners.....	36	Fly'g coal from sh'ts	2	Elmwood Coal Co.....	12
Dunfermline.....	2	Roadman.....	1	Pit cars.....	7	Glenburn Coal Co.....	4
Elmwood.....	12	Teamster.....	1	Powder ignited.....	3	McLean Coal Co.....	4
Fairmount.....	3	Track layers...	2	Struck by piece wedge	1	Muncie Coal Co.....	1
Glenburn.....	3	Trip riders....	2	Struck with pick....	1	Newsam Bros.....	1
Grape Creek.....	1			Rail falling from car	1	Pawnee Coal Co.....	9
Kellyville.....	4					Peoria C. & M. Co.....	1
Kingston.....	1					Roanoke Coal Co.....	1
Missionfield.....	6					Vicary Bros.....	1
Newton.....	1					Wabash Coal Co.....	1
Peoria.....	1					Whitebreast Fuel Co...	2
Reed City.....	1						
Roanoke.....	1						
Tilton.....	1						
Westville.....	4						
Totals.....	59		59		59		59

The county tables follow which, with the district recapitulation, complete the report for the Third District for the year ending July 1, 1895.

All of which is respectfully submitted.

JAMES A. KEATING,

State Inspector of Mines, Third District, Peoria, Illinois.

Cass County—Third District—1895.

Name of firm, company or person operating mine.	Town or postoffice nearest the mine.	CHARACTER OF PLANT.									Estimated number of acres worked out during the year.	
		Drift, Slope or Shaft.	Power—Steam, Horse or Hand.	Shipping or Local mine.	Hand or Machine mine	Long-wall or Pillar and-Room.	Old, New or Abandoned mine	Paid weekly, semi-monthly or monthly	Depth of coal below the surface—feet.	Thickness of seam—feet and inches.		Geological number of seam.
Virginia Coal Co.....	Virginia.....	Sh.	St.	B.	H.	L.	O.	S-M.	214	3.6	5	2.13
J. S. & G. S. Russel.....	Ashland.....	"	"	"	"	L. W.	"	"	205	2.6	5	.89
Nelson & Jensen.....	Chandlerv'le.	"	Hr.	"	"	P. R.	"	"	20	2.9	5	.48
Totals (3 mines).....		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.49
Averages.....		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Fulton County—Third District—1895.

Name of firm, company or person operating mine.	Town or postoffice nearest the mine.	CHARACTER OF PLANT.										Estimated number of acres worked out during the year.
		Drift, Slope or Shaft.	Power—Steam, Horse or Hand.	Shipping or Local mine.	Hand or Machine mine	Long-wall or Pillar and-Room.	Old, New or Abandoned mine.	Paid weekly, semi-monthly or monthly	Depth of coal below the surface—feet.	Thickness of seam—feet and inches.	Geological number of seam.	
Astoria Coal & Mining Co.	Astoria.....	Sh.	St.	Sh.	H.	P. R.	O.	S-M.	72	5.9	5	3.64
James Diamond & Son.....	"	Sh.	Hr.	L.	"	"	"	"	35	5.9	5	.15
W. Willock.....	"	"	"	"	"	"	"	"	35	5.9	5	.31
A. Geer & Co.....	Vermont.....	D.	Hd.	"	"	"	"	"	50	2.6	5	.03
Chas. Wilson.....	Table Grove.....	Sh.	Hr.	"	"	"	N.	"	98	2.6	1	.30
C. K. Roddis.....	Ipava.....	D.	"	"	"	"	O.	"	30	5.6	5	.30
John Hines.....	"	"	"	"	"	"	"	"	30	5.6	5	.06
R. Cass.....	"	"	"	"	"	"	"	"	35	5	5	.07
Watts Coal Co.....	Lewistown.....	"	Hd.	Sh.	"	L. W.	"	"	60	2.6	5	2.36
F. M. Gray.....	"	"	"	L.	"	P. R.	N.	"	36	2.6	5	.50
John Prose & Son.....	"	"	"	"	"	"	"	"	50	2.6	5	.42
Chas. Humphrey.....	"	"	"	"	"	"	"	"	45	2.6	5	.54
Joseph Finlay.....	"	"	"	"	"	"	O.	"	45	2.6	5	.41
Whitebreast Fuel Co.....	Dunfermline.....	Sh.	St.	Sh.	"	"	"	"	90	4.9	5	21.05
Carbon Coal Co.....	St. David.....	"	"	"	"	"	"	"	60	4.8	5	5.67
D. H. Williams.....	Norris.....	"	"	"	"	"	"	"	112	5	6	7.46
Wm. Rosebon.....	"	D.	Hd.	L.	"	"	"	"	60	4.6	6	.14
E. Jadsen.....	"	"	"	"	"	"	"	"	55	4.6	6	.09
Chas. Hansen.....	"	"	"	"	"	"	"	"	50	4.6	6	.18
Edw. Fillingham.....	"	Sl.	Hr.	"	"	"	"	"	50	4.6	6	.11
C. L. Walck.....	"	D.	Hd.	"	"	"	"	"	40	4.6	6	.11
Wm. Raffle & Son.....	Farmington.....	"	"	"	"	"	"	"	30	4	6	.08
John Davis.....	"	"	"	"	"	"	N.	"	30	4.8	6	.04
John Breseler.....	"	"	"	"	"	"	O.	"	35	5	6	.04
John Emmons & Co.....	"	Sh.	St.	Sh.	"	"	"	"	45	4	5	1.26
Maplewood Coal & M. Co.....	"	"	"	"	"	"	"	"	105	4.2	5	8.34
Claire Coal Co. No. 2.....	"	"	"	"	"	"	"	"	145	4.5	5	5.34
" " No. 1.....	Middle Grove.....	"	"	"	"	"	"	"	85	4.5	5	9.47
Chas. Menemuth.....	"	D.	Hr.	L.	"	"	N.	"	40	4.6	6	.24
Jas. Scudor.....	"	"	"	"	"	"	"	"	35	4.6	6	.11
J. Cline & Son.....	London Mills.....	Sh.	"	"	"	"	O.	"	30	3.6	5	.13
R. E. Gould.....	Fairview.....	D.	Hd.	"	"	"	"	"	50	4.6	6	.27
" Pamyas.....	"	"	"	"	"	"	"	"	50	4.6	6	.21
"	"	"	"	"	"	"	"	"	25	4.4	6	.24
"	"	Hr.	Sh.	"	"	"	"	"	25	4.6	6	.24

Cass County, 1895 Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.												Average value of lump coal at the mine.	
	Miners employed.		All other employ'gs.	No. of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.			
	Average during the year.	Highest during the year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.		Other grades.
Ala Coal Co.....	10	12	4	1	212	.....	.....	.....	\$0 65	\$0 70	15,000	10,000	5,000	\$1 10
E. G. S. Russell..	9	11	3	.....	230	6	.....	.....	90	90	3,030	3,030	.....	1 50
n & Jensen.....	2	2	1	.....	240	.....	.....	.....	85	85	1,100	1,100	.....	1 75
Totals.....	21	25	8	1	.....	6	.....	.....	.....	.....	19,120	14,130	5,000	.....
Averages.....	.....	.....	.....	.....	227	.....	.....	.....	\$0 71.9	0 75.44	.....	.....	.....	\$1 23

Fullton County, 1895—Concluded.

of firm, com- or person op- erating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.														Average value of lump coal per ton at the mine.
	Miners employed.		All other employees.	No. of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Cas- ual- ties. Injured.	Prices paid per ton for hand mining.		Tons of coal mined.					
	Average dur- ing the year.	Highest dur- ing the year.						Sam- mer.	Win- ter.	Total.	Lump coal.	Other grades.			
la C. & M. Co.	29	49	9	.....	255	527	.....	\$0 55	\$0 60	23,435	17,538	5,897	\$1 00
diamond & Son.	2	3	1	.....	215	36	.....	70	70	700	700	.....	1 25
ellock.....	2	5	1	.....	215	25	.....	70	70	1,663	1,663	.....	1 25
er & Co.....	2	5	.....	.....	200	.....	.....	1 00	1 00	600	600	.....	1 75
Wilson.....	2	4	1	.....	30	.....	.....	1 00	1 00	50	50	.....	1 75
Roddis & Son..	5	6	.....	.....	275	65	.....	75	75	1,400	1,400	.....	1 12
Hines.....	1	1	.....	.....	125	.....	.....	75	75	310	310	.....	1 00
ss.....	1	1	.....	.....	125	.....	.....	75	75	280	280	.....	1 00
Coal Co.....	17	31	4	.....	275	150	.....	80	80	10,000	7,950	2,050	1 15
Gray.....	3	5	.....	.....	180	9	.....	87½	87½	1,080	1,080	.....	1 25
Prose & Son..	2	4	.....	.....	160	12	.....	87½	87½	900	900	.....	1 25
Humphrey.....	3	5	1	.....	180	15	.....	87½	87½	1,140	1,140	.....	1 25
b Findlay.....	2	2	.....	.....	200	11	.....	85	85	860	860	.....	1 25
breast Fuel Co.	132	202	62	14	193	4,092	2	60	67½	112,631	84,803	28,428	99		
n Coal Co.....	40	67	15	2	120	1,008	.....	60	67½	31,031	22,332	8,698	90	
Williams.....	50	70	38	5	75	1,500	.....	65	72½	42,165	30,853	11,312	1 00	
Rosebon.....	2	2	.....	.....	175	.....	.....	75	75	525	525	.....	1 25
ensen.....	1	2	.....	.....	110	6	.....	75	75	350	350	.....	1 25
Hansen.....	3	6	.....	.....	115	10	.....	75	75	660	660	.....	1 25
Fillingham.....	1	2	.....	.....	125	8	.....	75	75	400	400	.....	1 25
Walck.....	1	1	.....	.....	100	12	.....	75	75	427	427	.....	1 25
Raffle & Son..	2	4	.....	.....	155	.....	.....	62½	62½	980	980	.....	1 25
Davis.....	1	1	.....	.....	80	.....	.....	62½	62½	150	150	.....	1 25
Bresler.....	1	2	.....	.....	150	.....	.....	75	75	190	190	.....	1 25
Emmons & Co.	10	15	5	2	113	355	.....	60	67½	5,684	4,262	1,422	1 00	
wood C. M. Co..	70	125	15	9	226	2,950	.....	60	67½	45,276	29,334	15,942	90	
Coal Co. No. 2	37	61	14	2	87	695	.....	45	45	20,841	19,400	1,441	90	
" No. 1	40	60	20	1	124	1,338	.....	45	45	40,163	25,035	5,128	90	
Menemuth.....	2	2	.....	.....	150	.....	.....	75	75	900	900	.....	1 25
cudor.....	1	1	.....	.....	140	.....	.....	75	75	400	400	.....	1 25
ie & Son.....	2	4	1	.....	130	34	.....	75	75	400	400	.....	1 25
Gould.....	2	4	.....	.....	200	.....	.....	75	75	1,084	1,084	.....	1 25
Pumyea.....	1	2	.....	.....	150	30	.....	75	75	200	200	.....	1 25
Claire.....	1	3	.....	.....	200	40	.....	62½	62½	900	900	.....	1 25
Nicholson.....	3	4	1	.....	120	21	.....	67½	75	458	428	30	70

ud by gross weight.

Fulton County—Third District—1895.

Name of firm, company or person operating mine.	Town or postoffice nearest the mine.	CHARACTER OF PLANT.										Estimated number of acres worked out during the year.
		Drift, Slope or Shaft.	Power—Steam, Horse or hand.	Shipping or Local mine.	Hand or Machine mine	Long-wall or Pillar-and-Room.	Old, New or Abandoned mine.	Paid weekly, semi-monthly or monthly	Depth of coal below the surface—feet.	Thickness of seam—feet and inches.	Geological number of seam.	
John Aberdusky	Fairview	D.	Hd.	L.	H.	P.R.	O.	S-M.	25	4.6	6	.15
John Fulmer	"	"	"	"	"	"	"	"	25	4.6	6	.16
S. Parr	"	"	"	"	"	"	"	"	25	4.6	6	.05
S. Dray	"	"	"	"	"	"	"	"	30	4.4	6	.26
D. Marvell	"	"	"	"	"	"	"	"	25	4.4	6	.09
Wm. Brown	"	"	"	"	"	"	"	"	35	4.6	6	.06
V. Harto	"	"	"	"	"	"	"	"	30	4.6	6	.08
J. M. Stout	"	"	"	"	"	"	"	"	30	4.6	6	.03
John Kitchen	"	"	"	"	"	"	N.	"	25	4.6	6	.04
B-T. Melick	"	"	"	"	"	"	O.	"	50	4.6	6	.08
Wm. Rutherford & Co.	Cuba	Sh.	St.	Sh.	"	"	"	"	60	4.8	5	6.09
J. M. Laws	"	"	"	"	"	"	"	"	80	4.8	5	3.64
John Hamilton	"	D.	Hd.	L.	"	"	"	"	33	4.4	5	.06
Bartlett & Bradley	"	Sl.	Hr.	Sh.	"	"	"	"	30	4.4	5	.24
Wm. Nicholson	"	"	"	"	"	"	"	"	50	4.8	5	3.01
Cline & Shaw	Fiatt	"	"	"	"	"	"	"	34	4.4	6	1.13
M. Bellows	Duncan Mills	D.	Hd.	L.	"	"	"	"	80	2.4	1	.15
S. P. Snyder	"	"	"	"	"	"	"	"	25	2.6	1	.18
Leonard & Hendee	Otto	"	"	"	"	"	"	"	30	2.6	1	.83
Geo. Ope	"	"	"	"	"	"	"	"	30	2.6	1	.20
S. Shafer	Summum	"	"	"	"	"	"	"	40	4.6	5	.04
J. D. Bankert	"	"	"	"	"	"	"	"	40	4.6	5	.29
C. J. Pickering	Bernadotte	"	"	"	"	"	"	"	45	3	1	.04
Thos. Whittles	"	"	"	"	"	"	"	"	30	2.6	1	.25
J. P. Hensley	Marietta	"	"	"	"	"	"	"	40	2.6	2	.33
Foraker & Munsey	"	"	"	"	"	"	"	"	23	2.6	2	.59
S. B. Howard	"	"	"	"	"	"	"	"	30	2.6	2	.30
Lance & Moray	"	"	"	"	"	"	"	"	35	6	2	.35
Louis Huff	"	"	"	"	"	"	"	"	25	6	2	.25
Robert Welch	"	"	"	"	"	"	"	W.	43	2.6	2	.12
D. Snoke	New Philad'a	"	"	"	"	"	"	"	40	2.6	2	.10
R. Blackburn	Leaman	"	"	"	"	"	"	"	30	3	1	.34
W. G. Stoke	"	"	"	"	"	"	"	"	25	2.6	1	.26
John Swanson & Co.	Canton	Sh.	Hr.	"	"	"	"	S-M.	55	4.8	5	.84
Robt. Smith	"	D.	Hd.	"	"	"	"	"	30	4.6	5	.15
Wm. Witham	"	"	Hr.	"	"	"	"	"	60	4.8	5	.32
Chas. Scanlon	"	"	Hd.	"	"	"	"	"	50	4.8	5	.22
P. Linden & Son	"	"	"	"	"	"	"	"	55	4.8	5	.27
Timothy & Duryea	"	"	"	"	"	"	"	"	53	5	5	.18
Nevitt & Kennedy	"	Sh.	Hr.	"	"	"	"	"	25	4.10	5	.18
Oliver Harria	"	D.	Hd.	"	"	"	"	"	53	5	6	.12
Oscar Waddell	"	"	Hr.	"	"	"	"	"	50	4.8	5	.31
Chas. Minnett	"	"	"	"	"	"	"	"	50	4.6	5	.12
Black Diamond Coal Co.	"	Sl.	"	"	"	"	"	"	70	5	5	.11
Canton Coal & Gas Co.	"	Sh.	St.	"	"	"	N. O.	"	71	4.6	5	3.73
Canton Union Coal Co.	"	Sl.	"	Sh.	"	"	"	"	75	4.8	5	.61
Gardner & Plenty	"	Sh.	"	L.	"	"	"	"	87	4.6	5	.65
Peterson & Dawson	"	"	Hr.	"	"	"	"	"	35	4.8	5	.18
Frank Alward	"	"	St.	"	"	"	"	"	30	4.6	6	.13
N. Patterson	Breeds	D.	Hd.	"	"	"	"	"	50	4.6	6	.02
P. Meehan	"	Sl.	Hr.	Sh.	"	"	"	"	70	4.6	5	3.02
Geo. Williams	Banner	D.	Hd.	L.	"	"	"	"	50	5	5	.15
Geo. Fiddler	"	"	"	"	"	"	"	"	50	5	5	.08
Wolf & Goodwin	"	"	"	"	"	"	"	"	48	5	5	.12
Totals (89 mines) .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100.86
Averages .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Fullon County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.													Average value of lump coal per ton at the mine.
	Miners employed.		All other employes.	No. of boys employed under ground.	No. of working days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.			
	Average during year.	Highest during year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.	
John Aberdusky.....	2	2	.....	.....	150	22	.....	.....	75	.....	600	600	.....	1 00
John Fullmer.....	2	2	.....	.....	150	20	.....	.....	75	.....	650	650	.....	1 00
S. Parr.....	2	2	.....	.....	160	12	.....	.....	75	.....	220	220	.....	1 00
S. Dray.....	2	2	1	.....	200	.....	.....	.....	75	75	1,000	1,000	.....	1 00
D. Marvell.....	1	1	.....	.....	175	.....	.....	.....	75	75	360	360	.....	1 00
Wm. Brown.....	1	1	.....	.....	125	8	.....	.....	75	75	250	250	.....	1 00
V. Harto.....	2	2	.....	.....	125	12	.....	.....	75	75	325	325	.....	1 00
J. M. Stout.....	1	1	.....	.....	130	.....	.....	.....	75	75	115	115	.....	1 00
John Kitchen.....	1	1	.....	.....	125	.....	.....	.....	75	75	160	160	.....	1 00
B. T. Melick.....	2	2	.....	.....	150	.....	.....	.....	75	75	340	340	.....	1 00
Wm. Rutherford & C.....	29	52	7	.....	1,049	.....	.....	.....	40	45	31,968	23,972	7,991	94
J. M. Laws.....	20	35	6	.....	100	575	.....	.....	40	45	14,336	14,336	.....	90
John Hamilton.....	1	1	.....	.....	80	25	.....	.....	75	75	224	224	.....	75
Hartlett & Bradley.....	2	4	.....	.....	115	50	.....	.....	57 1/2	62 1/2	900	900	.....	1 00
Wm. Nicholson.....	20	35	6	.....	112	469	.....	.....	67 1/2	75	12,100	11,860	240	71
Cline & Shaw.....	8	13	4	2	175	.....	.....	.....	62 1/2	62 1/2	4,270	4,270	.....	1 25
M. Bellows.....	1	1	.....	.....	140	11	.....	.....	1 00	1 00	280	280	.....	1 25
S. P. Snyder.....	1	1	.....	.....	155	.....	.....	.....	1 00	1 00	375	375	.....	1 25
Leonard & Hendee.....	2	2	.....	.....	175	19	.....	.....	1 00	1 00	695	695	.....	1 00
Geo. Ope & Son.....	2	2	.....	.....	125	10	.....	.....	1 00	1 00	425	425	.....	1 00
S. Shaffer.....	2	2	.....	.....	90	.....	.....	.....	75	75	330	330	.....	1 25
J. D. Bankert.....	1	1	.....	.....	85	18	.....	.....	75	75	160	160	.....	1 25
C. J. Pickering.....	2	2	.....	.....	140	30	.....	.....	1 00	1 00	750	750	.....	1 00
Thos. Wintles.....	2	2	.....	.....	150	13	.....	.....	1 00	1 00	530	530	.....	1 25
J. P. Henesley.....	2	2	.....	.....	100	.....	.....	.....	1 00	1 00	700	700	.....	1 25
Foraker & Munsey.....	2	2	.....	.....	225	.....	.....	.....	1 00	1 00	1,200	1,200	.....	1 25
S. B. Howard.....	2	2	.....	.....	225	.....	.....	.....	1 00	1 00	600	600	.....	1 25
Lance & Moray.....	2	2	.....	.....	225	.....	.....	.....	1 00	1 00	700	700	.....	1 25
Louis Huff.....	2	2	.....	.....	180	.....	.....	.....	1 00	1 00	525	525	.....	1 25
Robert Welch.....	2	2	.....	.....	150	.....	.....	.....	1 00	1 00	250	250	.....	1 25
D. Snocke.....	2	2	.....	.....	150	.....	.....	.....	1 00	1 00	200	200	.....	1 25
R. Blackburn.....	1	2	.....	.....	200	30	.....	.....	1 00	1 00	600	600	.....	1 25
W. G. Stoke.....	1	1	.....	.....	225	15	.....	.....	1 00	1 00	550	550	.....	1 25
John Swanson & Co.....	3	5	1	.....	200	85	.....	.....	67	67	1,360	1,360	.....	1 00
Robt. Smith.....	2	2	.....	.....	190	14	.....	.....	65	75	570	570	.....	1 00
Wm. Whitnam.....	1	1	2	.....	190	50	.....	.....	65	75	1,280	1,280	.....	1 00
Chas. Scanlon.....	4	2	.....	.....	200	40	.....	.....	65	75	850	850	.....	1 00
P. Linden & Son.....	2	2	.....	.....	225	55	.....	.....	65	70	1,080	1,080	.....	1 00
Timothy & Duryea.....	2	2	.....	.....	200	33	1	.....	65	70	750	750	.....	1 00
Nevitt & Kennedy.....	2	2	.....	.....	250	36	.....	.....	65	70	734	734	.....	1 00
Oliver Harris.....	2	2	.....	.....	150	14	.....	.....	67 1/2	67 1/2	500	500	.....	1 00
Oscar Waddell.....	4	8	.....	.....	190	63	.....	.....	67 1/2	67 1/2	1,200	1,200	.....	1 00
Chas. Minnett.....	1	1	.....	.....	230	20	.....	.....	67	67	460	460	.....	1 00
Black Diamond C. Co.....	2	2	.....	.....	100	45	.....	.....	67	67	450	450	.....	1 00
Canton Coal & G. Co.....	20	25	3	.....	255	638	.....	.....	70	75	14,192	14,192	.....	1 12
Canton Union C. Co.....	8	10	2	.....	100	100	.....	.....	67 1/2	67 1/2	2,400	2,400	.....	1 00
Gardner & Plenty.....	5	7	2	1	140	50	.....	.....	67 1/2	67 1/2	2,570	2,495	75	1 00
Peterson & Dawson.....	2	4	1	.....	300	45	.....	.....	70	70	900	700	200	1 10
Frank Alward.....	4	5	1	2	175	15	.....	.....	70	70	480	480	.....	1 25
N. Patterson.....	1	1	.....	.....	80	.....	.....	.....	67	67	100	100	.....	1 00
P. Meehan.....	20	37	3	.....	250	600	.....	.....	60	75	12,000	11,500	500	75
Geo. Williams.....	2	4	.....	.....	180	30	.....	.....	75	75	650	650	.....	1 00
Geo. Fiddler.....	1	2	.....	.....	180	17	.....	.....	75	75	350	350	.....	1 00
Wolf & Goodwin.....	1	2	.....	.....	175	25	.....	.....	75	75	500	500	.....	1 00
Totals.....	690	1,093	227	40	.....	17352	3	.....	.....	.....	468,792	379,438	89,354	.....
Averages.....	.....	.....	.....	.....	169	.....	.....	.....	\$0.65.54	\$0 70.6	.....	.....	.....	\$0 96

*Paid by gross weight.

Logan County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.														Average value of lump coal per ton at the mine.
	Miners employed.		All other employees.	No. of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.				
	Average during the year.	Highest during the year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.		
Lincoln Coal Co.....	75	87	40	4	375	3,127	1	..	\$0 51	\$0 51	80,535	80,535	.....	\$0 95
Citizens' Coal Co.....	70	110	30	....	240	2,935	..	..	50	50	78,940	68,440	10,500	1 00
Union Coal Co.....	20	42	10	....	200	953	..	..	50	50	22,500	15,000	7,500	1 00
Total.....	95	239	80	4	....	4,080	1	..	.....	.....	181,975	163,975	18,000	.....
Averages.....	.....	.....	.....	.....	.....	.....	.....	.....	\$0 5049	\$0 5049	.....	.....	.....	.975

McLean County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.														Average value of lump coal per ton at the mine.
	Miners employed.		All other employes	No. of boys employed under ground.	No. of working days in the year.	No. of kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.				
	Average during year.	Highest during year.					Injured.	Killed.	Summer.	Winter.	Total.	Lump coal.	Other grades.		
McLean Coal Co	190	225	60	8	275	10	4	..	\$0 60	\$0 60	124,597	109,963	14,634	\$1 35	
Colfax Coal Co.....	45	60	18	....	184	1,100	..	3	40	45	31,233	20,822	10,411	1 45
Stewart Coal Co.....	3	5	2	....	90	40	1	..	40	45	810	310	.....	1 50
Davis Coal Co.....	12	25	8	....	275	400	..	1	60	60	8,000	6,000	2,000	1 60
Total.....	250	315	88	8	....	1,550	1	8	.....	.....	164,140	137,095	27,045	....
Averages.....	.....	.....	.....	.....	245	.....	.....	.....	\$1 5615	\$0 571	.....	.....	.....	\$1 37

Menard County—Third District—1895.

Name of firm, company or person operating mine.	Town or postoffice nearest the mine.	CHARACTER OF PLANT.										Estimated number of acres worked out during the year.
		Drift, Slope or Shaft.	Power—Steam, Horse or Hand.	Shipping or Local mine.	Hand or Machine mine.	Long-wall or Pillar-and-Room.	Old, New or Abandoned mine.	Paid weekly, semi-monthly or monthly.	Depth of coal below the surface—feet.	Thickness of seam—feet and inches.	Geological number of seam.	
Athens Mining Co.	Athens	Sh.	St.	Sh.	B.	P. R.	O.	S-M.	230	6	5	11.65
Wabash Coal Co.	"	"	"	"	H.	"	"	"	187	5.6	5	6.62
J. A. Brahm	Petersburg ..	"	"	"	"	"	"	"	70	5.6	5	1.36
J. P. Gaffigan Co-Op. Co.	"	"	"	"	"	"	"	"	99	5.6	5	3.83
Chi. & Kansas City Coal Co.	"	"	"	"	"	"	"	"	180	5.6	5	9.69
Zeilers & Williams	Tice	"	Hr.	L.	"	"	N.	W.	100	5.6	5	.34
Lankford & Hughes	Petersburg ..	"	"	"	"	"	"	"	75	5.6	5	.39
Wm. Parkin	Sweetwater ..	"	"	"	"	"	O.	"	170	5.4	5	.76
Menard Coal Co.	Greenview ..	"	St.	Sh.	"	"	"	S-M.	104	5.10	5	10.5
Tallula Coal Co.	Tallula	"	"	"	"	"	"	"	180	5	5	2.55
Totals (10 mines) .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	49.54
Averages .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Peoria County—Third District—1895.

Name of firm, company or person operating mine.	Town or postoffice nearest the mine.	CHARACTER OF PLANT.										Estimated number of acres worked out during the year.
		Drift, Slope or Shaft.	Power—Steam, Horse or Hand.	Shipping or Local mine.	Hand or Machine mine.	Long-wall or Pillar-and-room.	Old, New or Abandoned mine.	Paid weekly, semi-monthly or monthly.	Depth of coal below the surface—feet.	Thickness of seam—feet and inches.	Geological number of seam.	
Jefford Bros.	Kingston ...	D.	Hr.	S.	H.	P. R.	O.	S. M.	100	4.8	5	.65
F. Fahnestock	"	"	"	"	"	"	"	"	60	4.8	5	.16
Newsam Bros. No. 1	"	"	St.	S.	"	"	"	"	90	4.8	5	13.78
New Star Mine No. 2	Peoria	Sh.	"	"	"	"	"	"	175	4.4	5	4.36
New Millard Mine No. 3	"	D.	"	"	"	"	"	"	90	4.4	5	2.52
Peoria Coal and Mining Co.	Wolcott	Sl.	"	"	B.	"	"	"	80	4.6	5	4.15
W. C. Foley	Mapleton	"	"	"	H.	"	"	"	90	4.6	5	.97
Frank Newsam	Orch'rd, Mine	Dr.	Hr.	L.	"	"	"	"	70	4.6	5	.24
Frank Lowery No. 1	"	"	"	"	"	"	"	"	50	4.4	5	.60
" No. 2	"	"	St.	S.	"	"	"	"	90	4.6	5	.94
D. B. Roberts	"	"	Hr.	L.	"	"	"	"	65	4.6	5	.16
Geo. McCullough	"	"	"	"	"	"	"	"	80	4.6	5	.13
Frank Jones	"	"	"	"	"	"	"	"	80	4.6	5	.23
W. H. Jones	"	"	"	"	"	"	"	"	75	4.6	5	.19
Robert Miller	"	"	"	"	"	"	"	"	70	4.6	5	.13
Jas. Clark	Harkers C'n'r	"	Hr.	"	"	"	"	"	70	4.6	5	.33
Wm. Stranze	"	"	"	"	"	"	"	"	70	4.6	5	.05
German Cooperative Co.	Hollis	Sl.	St.	S.	"	"	"	"	90	4.6	5	1.69
Sholl Bros. No. 1	"	"	"	"	"	"	"	"	120	4.6	5	6.33
" No. 2	"	Sh.	"	"	"	"	"	"	120	4.6	5	3.68
Steve Walschlag	Bartonville ..	Sl.	"	"	"	"	"	"	90	4.6	5	3.16
Joseph Sholl & Sons	"	"	"	"	"	"	"	"	90	4.6	5	2.68
Ball Coal Co.	"	Sh.	"	L.	"	"	"	"	82	4.6	5	1.63
Collier	"	Sl.	"	S.	"	"	"	"	70	4.6	5	5.79
Walt	"	"	Hr.	L.	"	"	"	"	100	4.6	5	1.94
"	"	"	"	"	"	"	"	"	65	4.6	5	.48
"	"	"	"	"	"	"	"	"	90	4.6	5	.06
"	"	"	"	"	"	"	"	"	65	4.6	5	.04

Menard County, 1895—Concluded.

of firm, com- or person op- ing mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.														Average value of lump coal per at ton the mine.
	Miners employed.		All other employes.	No of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Cas- ual- ties.		Prices paid per ton for hand mining.		Tons of coal mined.				
	Average dur- ing year.	Highest dur- ing year.					Killed.	Injured.	Sum- mer.	Win- ter.	Total.	Lump coal.	Other grades.		
s Mining Co....	65	89	43	...	119	2,297	1	2	...	...	70,045	58,997	11,048	\$0 80
h Coal Co.....	71	125	21	3	84	1,229	1	1	\$0 50	\$0 55	42,559	33,833	8,726	75	
brahim Co.....	17	23	6	...	130	455	...	...	40	40	7,808	6,314	1,494	1 00
an Co-Op. C. Co	35	60	8	...	240	880	...	...	35	40	33,750	27,000	6,750	90
Kan. City C. Co	50	85	15	...	210	1,800	...	...	35	45	50,000	45,000	5,000	85
s & Williams ..	2	3	1	...	300	63	...	...	62½	62½	1,136	1,136	...	1 12
ord & Hughes ..	7	9	1	...	210	81	...	...	62½	62½	1,417	1,377	40	1 50
Parkin.....	5	9	...	...	182	130	...	...	62½	62½	30,672	3,415	257	1 50
d Coal Co.....	50	80	25	...	158	2,121	...	...	50	50	55,342	47,842	7,500	94
a Coal Co.....	17	25	10	...	150	473	...	...	45	50	12,109	10,785	1,324	99
tals.....	269	438	106	4	...	9,579	1	3	...	...	277,738	235,199	42,539	...
Averages.....	...	...	...	...	179	...	...	...	\$0 5085	\$0 5279	...	...	...	.873

Peoria County, 1895—Concluded.

of firm, com- or person op- ting mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.													Average value of lump coal per ton at the mine.
	Miners employed.		All other employes.	No. of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Cas- ual- ties.		Prices paid per ton for hand mining.		Tons of coal mined.			
	Average dur- ing the year.	Highest dur- ing the year.					Killed.	Injured.	Sum- mer.	Win- ter.	Total.	Lump coal.	Other grades.	
d Bros.....	12	20	5	3	55	176	...	...	\$0 60	.....	2,555	2,555	.....	\$1 25
neestock.....	2	2	...	...	90	20	...	...	60	...	400	400	.....	1 25
m Bros., No. 1	64	106	22	2	205	...	1	1	60	\$0 67½	74,570	62,142	12,428	1 00
" " No. 2	20	33	8	...	100	...	...	...	* 45	50	19,914	15,931	3,983	90
" " No. 3	32	57	20	2	...	...	...	...	* 45	50	11,535	9,228	2,307	90
C. & Min'g. Co.	20	50	5	...	90	780	...	1	* 40	45	15,772	15,772	...	80
Foley.....	10	15	3	...	125	200	...	...	* 40	45	4,000	3,700	300	90
Newsam.....	2	2	...	...	159	50	...	...	70	70	900	900	...	1 00
Lowery, No. 1	8	17	2	...	107	260	...	...	* 45	50	2,915	2,186	729	1 00
" " No. 2	7	14	2	...	120	175	...	...	60	60	3,575	3,575	...	1 12
Roberts.....	3	3	...	...	250	30	...	...	70	70	600	600	...	1 00
McCollough.....	1	2	1	...	125	25	...	...	75	75	500	500	...	87
Jones.....	2	2	...	...	130	45	...	...	75	75	820	820	...	87
Jones.....	2	2	...	...	130	26	...	...	75	75	720	720	...	87
Miller.....	1	2	...	...	125	25	...	...	75	75	480	480	...	87
Clark.....	4	4	1	...	150	60	...	...	75	75	1,200	1,200	...	1 00
Stranze.....	1	2	...	...	125	50	...	...	75	75	200	200	...	87
in CoOp. Co.	20	25	5	3	150	...	...	...	* 40	45	9,427	6,318	3,109	73
Bros., No. 1	30	50	11	1	200	1,575	...	...	* 40	45	35,050	24,050	11,000	80
" " No. 2	18	30	7	3	160	835	1	...	* 45	50	20,706	14,005	6,700	80
Walschlag ..	21	40	2	...	125	800	...	...	* 45	50	17,500	12,000	5,500	80
holl & Sons ..	14	28	5	3	183	502	...	...	* 40	45	10,238	10,238	...	90
oal Co.....	5	9	1	...	286	288	...	...	70	70	6,566	6,301	365	1 00
r CoOp. Co.	26	26	8	1	174	1,106	...	...	* 40	40	22,009	22,009	...	85
r & Myatt.....	14	16	1	...	250	409	...	...	62½	62½	7,349	7,349	...	1 00
eller.....	3	6	1	...	175	104	...	...	65	75	1,845	1,845	...	1 00
r Treasure ..	2	2	...	...	100	15	...	...	65	75	200	200	...	1 00
urst.....	2	3	1	1	130	12	...	...	65	75	175	175	...	1 00
id Bros.....	7	8	1	1	280	241	...	...	62½	68	5,064	5,064	...	1 00
chmidt, No. 1.	5	8	2	...	212	60	...	...	68½	68½	1,171	1,171	...	1 00

Peoria County, 1895.—Concluded.

Name of firm, company or person operating mine.	Town or postoffice nearest the mine.	CHARACTER OF PLANT.										Estimated number of acres worked out during the year.		
		Drift, Slope or Shaft.	Power—Steam, Horse or Hand.	Shipping or Local mine.	Hand or Machine mine	Long-wall or Pillar-and-Room.	Old, New or Abandoned mine.	Paid weekly, semi-monthly or monthly	Depth of coal below the surface—feet.	Thickness of seam—feet and inches.	Geological number of seam.			
F. P. Schmidt, No. 2.....	Bartonville..	Sh.	Hr.	L.	H.	P.	R.	O.	S.	M.	50	4.4	5	.14
Lyman Monroe.....	"	Dr.	"	"	"	"	"	"	"	"	80	4.4	5	.16
John Glen.....	Peoria.....	"	"	"	"	"	"	"	"	"	90	4.2	5	.22
Peter Grant.....	"	Sh.	St.	S.	"	"	"	"	"	"	140	4.2	5	3.30
Royster Bros.....	"	"	"	"	B.	"	"	"	"	"	48	4.4	5	2.59
E. Brost, No. 1.....	"	Dr.	"	L.	H.	"	"	"	"	"	90	4.4	5	.82
" " No. 2.....	"	Sl.	"	"	"	"	"	"	"	"	186	4.4	5	1.09
W. J. White.....	"	"	Hr.	"	"	"	"	"	"	"	170	4.4	5	1.58
Fred Martin.....	"	"	St.	"	"	"	"	"	"	"	120	4.4	5	1.09
Richard Cody.....	"	Sh.	Hr.	"	"	"	"	"	"	"	70	4.4	5	2.02
Fred Mohn.....	"	"	"	"	"	"	"	"	"	"	65	4.4	5	.66
Wm. Cook.....	"	Dr.	"	"	"	"	"	"	"	"	108	4.4	5	.77
Conrad & Rumple.....	"	"	"	"	"	"	"	"	"	"	100	4.4	5	.46
John Burges.....	"	"	"	"	"	"	"	"	"	"	80	4.4	5	.49
Harmon & Masterson.....	"	"	"	"	"	"	"	"	"	"	100	4.4	5	.52
Daniel Driscoll.....	"	"	"	"	"	"	"	"	"	"	90	4.4	5	.39
Martin & Lane.....	"	"	"	"	"	"	"	"	"	"	90	4.4	5	.21
Thos. Muir.....	"	"	"	"	"	"	"	"	"	"	80	4.4	5	.49
Richard Keef.....	"	"	"	"	"	"	"	"	"	"	95	4.4	5	.64
Vicary Bros.....	"	"	"	"	"	"	"	"	"	"	130	4.4	5	2.56
Peter Slane.....	"	"	"	"	"	"	"	"	"	"	100	4.4	5	.55
John Saupe.....	"	"	"	"	"	"	"	"	"	"	80	4.6	5	.63
Isaac Wantling.....	Pottstown..	Sl.	St.	S.	"	"	"	"	"	"	90	4.6	5	5.00
Thos Wantling.....	"	Dr.	Hr.	L.	"	"	"	"	"	"	80	4.6	5	.08
Sam Potts.....	"	"	"	"	"	"	"	"	"	"	80	4.6	5	.21
Jesse Stafford.....	"	"	"	"	"	"	"	"	"	"	90	4.6	5	.02
C. B. Kramm.....	Edwards.....	"	"	S.	"	"	"	"	"	"	40	4.6	5	.26
Nathan Shaw.....	Kramm St'n	"	"	B.	"	"	"	"	"	"	70	4.2	5	1.56
Casick & Edwards.....	"	"	"	S.	"	"	"	"	"	"	40	4.6	5	.73
H. Heintz.....	Kickapoo....	Sh.	"	L.	"	"	"	"	"	"	50	4.8	6	.12
Wm. Poole.....	"	Sl.	"	"	"	"	"	"	"	"	70	4.10	6	.17
Joseph Varce.....	"	"	"	"	"	"	"	"	"	"	110	2.6	5	.04
Elmwood Coal Co.....	Elmwood....	Sh.	St.	S.	"	L.	W.	"	"	"	215	2.6	2	7.31
John Endreas.....	"	"	Hr.	L.	"	P.	R.	"	"	"	17	4.6	6	.22
M. Donigian.....	"	"	"	"	"	"	"	N.	W.	"	30	4.8	6	.06
Hanna City Coal Co.....	Hanna City..	"	St.	S.	"	"	"	O.	S.	M.	210	4	5	1.66
E. O. Root.....	Brimfield....	"	Hr.	L.	"	"	"	"	"	"	30	5	6	.21
Joseph Rattlebach.....	"	"	"	"	"	"	"	"	"	"	35	5	6	.07
John Martin.....	"	"	"	"	"	"	"	"	"	"	30	5.6	6	.26
Phillip Tully.....	"	Dr.	"	"	"	"	"	"	"	"	30	5	6	.17
Chas. Berry & Sons.....	"	Sh.	"	"	"	"	"	"	"	"	35	4.8	6	.38
W. G. Saunders.....	Jubilee.....	Dr.	Hd.	"	"	"	"	"	"	"	70	4.6	6	.09
Wm. Dodsworth.....	Laura.....	Sh.	Hr.	"	"	"	"	"	"	"	18	4	6	.05
Omer Lamberson.....	"	"	"	"	"	"	"	"	"	"	20	4.6	6	.19
John Larson.....	Chase.....	"	"	"	"	"	"	"	"	"	30	4.10	6	.54
Robert Crew.....	Chillicothe..	Dr.	Hd.	"	"	"	"	"	"	"	60	3.4	7	.27
Joseph Crew.....	"	"	"	"	"	"	"	"	"	"	80	3.4	7	.23
Wm. Gray.....	"	"	"	"	"	"	"	"	"	"	90	4.4	6	.16
Robert H. Goss.....	Trivoli.....	"	"	"	"	"	"	"	"	"	20	4.4	6	.08
Totals (79 mines).....														100.22
Averages.....														

Whole number of openings reported in 1894, 86.

Number of new mines or places opened during the year, 1.

Number of mines exhausted or abandoned during the year, 8.

Whole number of openings reported for 1895, 79.

Peoria County, 1895—Concluded.

EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.														Average value of lump coal per ton at the mine.
Name of firm, company or person operating mine.	Miners employed.		All other employes.	No. of boys employed under ground.	No. of working days in the year.	No. of kegs of powder used during year.	Casualties.	Prices paid per ton for hand mining.		Tons of coal mined.				
	Average during year.	Highest during year.						Summer.	Winter.	Total.	Lump coal.	Other grades.		
F. P. Schmidt, No. 2.	1	2	...	...	85	28	...	\$0 68½	\$0 68½	510	510	...	\$1 00
Lyman Monroe.	2	2	...	...	150	35	...	68½	68½	600	600	...	1 00
John Glen.	2	2	...	...	120	44	...	75	75	768	768	...	1 00
Peter Grant.	12	23	8	1	143	800	...	* 40	* 50	15,050	11,600	3,450	80	
Royster Bros.	14	25	5	...	160	1,800	...	* 40	* 45	9,825	9,468	367	90	
E. Brost, No. 1.	5	7	1	...	150	150	...	68½	68½	3,000	3,000	...	1 00	
" " No. 2.	5	8	1	...	160	200	...	68½	68½	4,000	4,000	...	1 00	
W. J. White.	4	8	1	...	180	311	...	68½	68½	5,600	5,600	...	1 00	
Fred Martin.	5	8	1	...	200	222	...	67½	67½	4,000	4,000	...	1 00	
Richard Cody.	6	10	2	1	225	411	...	68½	68½	7,400	7,400	...	1 00	
Fred Mohn.	5	8	2	1	200	133	...	68½	68½	2,400	2,400	...	1 00	
Wm. Cook.	2	3	...	...	240	120	...	68½	68½	2,800	2,800	...	1 00
Conrad & Rumpie.	2	2	...	...	215	89	...	68½	68½	1,700	1,700	...	1 00
John Burgess.	2	2	...	...	175	80	...	68½	68½	1,600	1,600	...	1 00
Harrimon & Masters'n	4	4	...	...	210	105	...	68½	68½	1,898	1,898	...	1 00
Daniel Driscoll.	4	8	3	...	170	78	...	68½	68½	1,400	1,400	...	1 00	
Martin & Lane.	2	2	...	...	190	57	...	68½	68½	1,150	1,150	...	1 00
Thos. Muir.	3	6	1	...	200	100	...	68½	68½	1,800	1,800	...	1 00	
Richard Keef.	3	6	1	...	110	132	...	68½	68½	2,340	2,340	...	1 00	
Vicary Bros.	15	28	2	...	175	434	1	62½	62½	9,380	9,380	...	95	
Peter Slane.	2	2	...	...	140	112	...	68½	68½	2,000	2,000	...	1 00
John Saupé.	3	6	...	...	200	133	...	68½	68½	2,400	2,400	...	1 00
Isaac Wantling.	31	50	12	3	200	1,050	...	* 40	50	21,000	19,000	2,000	1 00	
Thos. Wantling.	3	3	...	...	90	14	...	* 40	50	300	300	...	1 00
Sam Potts.	2	2	...	...	100	45	...	60	60	800	800	...	1 00
Jesse Stafford.	1	1	...	...	60	6	...	72	72	75	75	...	1 00
C. B. Kramm.	5	5	1	...	67	50	...	* 40	50	1,000	1,000	...	75	
Nathan Shaw.	6	10	2	...	140	300	...	65	72½	7,000	5,500	1,500	80	
Cusick & Edwards.	7	14	1	...	120	160	...	57½	67½	2,800	2,800	...	90	
H. Heintz.	3	6	1	...	180	...	...	75	75	450	450	...	1 50
Wm. Poole.	2	4	1	...	180	...	...	75	75	680	680	...	1 50
Joseph Varca.	2	2	1	...	140	8	...	75	75	260	130	130	1 25	
Elmwood Coal Co.	50	85	14	1	308	1,094	12	* 60	60	24,676	24,676	...	1 15	
John Endreas.	2	4	1	...	175	...	...	75	75	840	840	...	1 25
M. Donigian.	3	5	1	...	150	25	...	75	75	360	240	120	1 25	
Hanna City Coal Co.	20	29	11	1	112	404	...	* 50	* 55	7,053	5,632	1,431	90	
E. O. Root.	2	3	1	...	140	25	...	75	75	900	900	...	1 35	
Joseph Rattlebach.	3	5	1	...	135	13	...	75	75	465	300	165	1 35	
John Martin.	3	5	1	...	135	30	...	75	75	1,200	1,200	...	1 50	
Phillip Tully.	3	5	1	...	140	50	...	75	75	731	731	...	1 35	
Chas. Berry & Sons.	2	4	1	...	150	...	...	75	75	1,500	1,500	...	1 37
W. G. Saunders.	1	1	...	...	180	...	...	75	75	420	430	...	1 35
Wm. Dodsworth.	1	2	...	...	100	...	...	75	75	160	160	...	1 50
Omer Lamberson.	4	7	1	...	150	20	...	75	75	720	720	...	1 50	
John Larson.	5	8	1	...	225	10	...	88	88	2,200	2,200	...	1 50	
Robert Crew.	2	2	...	...	150	10	...	1 00	1 00	750	750	...	1 00
Joseph Crew.	2	2	1	...	165	2	...	1 00	1 00	631	631	...	1 09	
Wm. Gray.	1	2	...	...	150	33	...	1 00	1 00	600	600	...	1 50
Robert H. Goss.	1	2	...	...	130	...	...	75	75	300	300	...	1 50
Totals.....	627	1,020	189	31	...	16961	215	...	...	437,457	381,883	55,574	...
Averages.....	...	...	...	...	167	...	...	\$0 628	\$0 664	...	...	...	0.978

* Paid by gross weight.

Tazewell County—Third District—1895.

[illegible]

Tazewell County, 1895—Concluded.

f firm, com- r person op- ing mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.														Average value of lump coal per ton at the mine.
	Miners employed.		All other employes.	No. of boys employed under ground.	No. of working days in the year.	No. of kegs of powder used during year.	Casual- ties.		Prices paid per ton for hand mining.		Tons of coal mined.				
	Average dur- ing year.	Highest dur- ing year.					Killed.	Injured.	Sum- mer.	Win- ter.	Total.	Lump coal.	Other grades.		
Co-Op. C. Co. ros. ler Bros. & Co. Un'n Fuel Co. Millard Bros. s & Williams. Bros. Beedley. loan & Lee.	18 12 7 17 23 32 9 8 7 9 3	30 24 12 33 27 64 16 10 13 18 3	6 2 1 6 3 3 2 3 1 1 1	200 173 200 129 150 115 260 280 250 200 150	638 465 250 574 737 600 340 375 240 192 93	1 1 1 1 1 1 1 1 1 1 1	*\$0 70 70 *40 *40 *40 67 65 68 65 65	45 45 70 70 *40 45 75 80 75 80 75	*\$0 70 70 *40 45 45 75 80 75 80 75	12,804 9,300 6,000 13,245 14,070 12,990 6,578 7,500 4,959 4,800 1,860	11,180 9,300 6,000 8,830 10,000 11,390 6,372 7,500 4,854 4,800 1,860	1,624 4,415 4,070 1,600 206 105	\$0 93 1 13 1 13 75 76 90 1 06 1 25 1 00 1 13 1 00		
ds.	145	250	39	4	4,494	1	94,106	82,086	12,020	
Averages.	192	\$0 675	\$0 746	\$0 98	

aid by gross weight.

Vermilion County—Third District—1895.

Name of firm, company or person operating mine.	Town or postoffice nearest the mine.	CHARACTER OF PLANT.										Estimated number of acres worked out during the year.	
		Drift, slope or shaft.	Power—Steam, Horse or Hand.	Shipping or Local mine.	Hand or Machine mine	Long-wall or Pillar-and-room.	Old, new or abandoned mine.	Paid weekly, semi-monthly or monthly	Depth of coal below the surface—feet.	Thickness of seam—feet and inches.	Geological number of seam.		
Consolidated Coal Co.	Fairmount ..	Sh.	St.	S.	H.	P. R.	O.	S-M.	182	5	7	9.10	
" " No. 4	Danville	"	"	"	"	"	"	"	71	6	7	20.48	
" " "	Missionfield ..	Str.	"	"	"	"	"	"	25	6	7	22.82	
John Woodard	"	Sh.	Hr.	L.	"	"	"	"	69	6	7	.11	
Louis Baker	"	"	"	"	"	"	"	"	65	6	7	.21	
Westville Coal Co.	Westville....	"	St.	S	"	"	N.	"	6	6	6	.22	
Pawnee Coal Co.	"	"	"	"	Bth	"	O.	"	96	7	6	53.39	
Kellyville Coal Co. No. 1 ...	"	"	"	"	H.	"	"	"	95	6, 6	6	6.79	
" " No. 2	"	"	"	"	"	"	"	"	190	7	6	32.73	
Thos. T. Spellman	Grape Creek	D.	Hr.	"	"	"	"	"	60	6, 6	6	1.78	
Coaster & Wilson	"	Sl.	St.	"	"	"	"	"	70	6, 6	6	.42	
J. W. Blue	"	"	Hr.	"	"	"	"	"	80	6, 6	6	.62	
Humes & O'Connell	"	Sh.	"	"	"	"	"	"	60	7	6	1.04	
A. M. Hushong	"	Sl.	"	"	"	"	"	"	86	6, 6	6	.36	
James Lucas	"	"	"	"	"	"	"	"	90	6, 6	6	.22	
James Blakely	"	"	"	L.	"	"	N. W.	"	90	6, 6	6	.69	
Bunting Bros.	"	"	"	S.	"	"	O.	"	80	6, 6	6	.88	
C. M. Hay	"	"	St.	"	"	"	N. S-M.	"	80	6, 6	6	.35	
C. H. Trosper	"	Sl.	Hr.	L.	"	"	O.	"	75	6, 6	6	.18	
A. K. Briant	"	"	"	"	"	"	"	"	60	6, 6	6	.09	
Delaware Coal Co. No. 1 ..	Danville	"	St.	S.	"	"	N.	"	85	5, 8	7	9.41	
" " No. 2	"	"	"	"	"	"	O.	"	85	5, 8	7	1.65	
George Watts	"	"	Hr.	L.	"	"	"	"	65	6	7	.18	
Benj. Beddows	"	D.	"	"	"	"	"	"	70	6	7	.21	
Elmer Allison	"	Sl.	"	"	"	"	"	W.	70	6	7	.19	
John Swanson	"	"	"	"	"	"	N.	"	70	6	7	.11	
John Mobaker	"	"	"	"	"	"	N.	"	65	6	7	.10	
John E. Loyd	"	"	"	S.	"	"	O.	"	80	6	7	1.39	
Elisha Lord	"	Sh.	"	L.	"	"	"	"	78	6	7	.18	
Wm. Dobbins	"	Str.	"	"	"	L. W.	"	"	25	6	7	.18	
Louis Picon	"	Sl.	"	"	"	P. R.	O.	S-M.	70	6	7	.42	
Geo. Miller	"	"	"	"	"	"	"	"	75	6	7	.07	
Grape Creek No. 5	Grape Creek	Sh.	"	"	"	"	N.	"	"	"	"	"	
Stansbury & Watkins	Danville	D.	Hr.	"	"	"	O.	W.	45	6	7	.80	
Wm. Reay	"	"	"	"	"	"	"	"	45	6	7	.09	
D. P. Beay	"	"	"	"	"	"	N.	"	50	6	7	.42	
Daniel Jenkins	"	"	"	"	"	"	"	"	65	6	7	.21	
James Thomas	"	"	"	"	"	"	O.	"	70	6	7	1.42	
Jenkins Bros.	"	Sl.	"	"	"	"	"	"	60	6	7	.14	
M. C. Wilkinson	"	"	"	"	"	"	"	"	50	6	7	.68	
Benj. Hodge	"	"	"	"	"	"	"	"	65	6	7	.18	
Silvester Parl	"	"	"	"	"	"	"	"	55	6	7	.10	
John Gray	"	"	"	"	"	"	N	"	60	6	7	.18	
Chas. Hatfield	"	"	"	"	"	"	"	"	120	5, 4	7	21.88	
Glenburn Coal Co.	Glenburn	Sh.	St.	S.	M.	"	O.	S. M.	188	5, 4	7	2.82	
Muncie Coal Co.	Muncie	"	"	"	H.	"	"	"	60	5, 8	7	.27	
Arthur Jones	Catlin	"	Hr.	L.	"	"	"	"	60	5, 8	7	.16	
Thomas Jones	"	"	"	"	"	"	"	"	45	5, 8	7	.22	
Evan Jones	"	Sl.	"	"	"	"	"	"	80	5, 6	7	.44	
Thomas Thomas	"	"	"	"	"	"	"	"	53	5, 4	7	.74	
H. Harris	"	Sh.	"	"	"	"	"	"	80	5, 4	7	.09	
S. M. France	"	"	"	"	"	"	"	"	60	6	7	.50	
D. M. Lewis & Son	Vandercook	"	"	"	"	"	N.	"	50	5, 8	7	.11	
Albert Bonnett	Pilot	"	"	"	"	"	O.	"	4	4	7	.80	
J. C. Williams	Georgetown	Str.	"	"	"	"	"	W.	40	4	7	.06	
A. J. Hawkins	"	"	"	"	"	"	"	"	4	4	7	.11	
John Coon	"	D.	"	"	"	"	O.	"	55	5, 8	7	.05	
Jacob Clifton	Hillery	"	"	"	Bth	"	N.	S. M.	45	6	7	.24	
Mauck Bros	Danville	"	"	"	L.	"	O.	"	60	6	7	.36	
Wm. Taylor	"	"	"	"	"	"	"	"	50	6	7	.24	
John Aldridge	"	"	"	"	"	"	"	"	60	6	7	.36	
Grant & Holycross	"	"	"	"	"	"	"	"	50	6	7	.24	
Totals (61 mines)													198.56
Averages													

Vermilion County, 1895—Concluded.

Firm, com- person op- ing mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.													Average value of lump coal per ton at the mine.
	Miners employed.		All other employes.	No. of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Casual- ties.		Prices paid per ton for hand mining.		Tons of coal mined.			
	Average dur- ing year.	Highest dur- ing year.					Killed.	Injured.	Sum- mer.	Win- ter.	Total.	Lump coal.	Other grades.	
Al Co.,	50	55	23	...	150	2,718	4	...	\$0 38	\$0 38	59,840	53,732	6,108	\$0 85
" " No. 4.	208	225	70	7	171	3,604	1	2	38	38	150,465	130,963	19,441	85
odard	15	18	232	3	283	1,752	6	...	...	...	148,418	134,100	13,618	80
ker	6	6	1	...	100	30	...	...	60	70	900	600	300	1 00
Coal Co.	12	4	1	...	150	36	...	...	50	50	1,200	1,200	...	1 00
Coal Co.	17	21	9	...	18	15	...	...	...	...	1,100	1,100	...	60
Coal Co.	180	260	45	5	...	1,341	2	9	33	38	300,021	270,296	29,725	80
C ^l Co., No. 1	50	80	30	3	115	1,180	...	...	33	47½	43,744	34,294	9,450	60
" " No. 2	230	250	70	10	161	4,820	3	...	33	47½	210,364	165,719	44,645	60
ellman	20	25	5	...	160	367	...	...	33	33	9,129	9,029	100	80
t Wilson	18	23	3	...	85	80	...	...	33	33	2,340	2,140	200	75
ne	5	7	2	...	192	152	...	...	50	50	3,200	3,000	200	90
O'Connell	12	15	4	2	106	166	...	...	33	33	5,000	5,000	...	80
shong	5	7	1	...	192	189	...	...	50	50	4,700	4,700	...	1 00
scas	3	6	1	...	180	31	...	...	55	55	1,523	1,101	422	1 05
lakeley	3	5	1	...	190	150	...	...	50	50	3,800	3,800	...	1 00
Bros.	6	7	1	...	190	130	...	...	55	55	4,434	4,434	...	95
Y.	3	6	1	...	150	42	...	...	47½	47½	2,000	1,750	250	80
eper	7	9	2	...	200	175	...	...	33	33	1,200	900	300	80
ant	2	2	1	...	150	15	...	...	33	33	1,550	450	100	1 00
C. C., No. 1	70	116	28	3	116	560	3	...	33	33	45,000	45,000	...	80
" " No. 2	7	10	4	1	116	190	...	...	33	33	5,000	5,000	...	80
Vatts	3	6	2	...	180	34	...	...	60	60	1,650	1,050	600	1 10
ws.	2	3	1	...	140	52	...	...	60	60	1,700	1,200	500	1 25
lison	4	7	1	...	200	40	...	...	40	40	1,400	700	700	1 25
anson	3	3	1	...	200	30	...	...	55	55	800	600	200	1 25
baker	2	2	1	...	150	12	...	...	60	60	650	500	150	1 12
Loyd	10	13	5	...	210	216	...	...	37½	...	8,100	8,100	...	90
yd.	6	8	2	...	180	25	...	...	60	60	1,200	1,100	100	1 00
obins.	4	6	...	...	90	10	...	...	...	...	2,500	2,500	...	1 00
on.	3	6	1	...	150	150	...	...	55	55	3,000	2,500	500	1 00
iller	2	4	1	...	90	5	1	...	55	55	360	360	...	75
y & Watkins	6	15	3	...	215	70	...	...	60	60	5,506	4,000	1,506	1 25
aty.	4	4	1	...	150	40	...	...	60	60	1,200	1,000	200	1 00
nkins	3	5	1	...	200	...	...	...	55	55	597	417	180	1 00
omas	2	3	2	1	200	40	...	...	55	55	1,500	1,100	400	1 00
ros	7	11	2	...	250	15	...	...	58	58	7,364	6,164	1,200	1 10
lkinson	2	4	1	...	150	...	...	...	60	60	700	700	...	1 00
lge.	3	4	...	...	140	40	...	...	55	55	650	500	150	1 00
Parl.	3	6	1	...	180	15	...	...	60	60	1,200	900	300	1 00
y	3	4	1	...	200	37	...	...	60	60	1,000	667	333	1 00
Hatfield	2	4	1	...	200	35	...	...	60	60	800	500	300	1 25
Coal Co.	67	119	16	2	265	1,300	2	4	...	...	96,207	95,607	600	1 00
oal Co.	17	26	7	...	176	335	1	...	40	40	12,700	12,700	...	1 25
ones	2	4	1	...	150	40	...	...	55	55	1,317	1,284	33	1 00
Jones	2	4	1	...	110	30	...	...	60	60	825	755	70	1 00
es.	2	3	...	...	45	25	...	...	60	60	680	680	...	1 00
Thomas	3	3	...	...	200	50	...	...	55	55	1,135	1,025	100	1 00
l.	7	8	2	...	200	100	...	...	55	55	2,000	2,000	...	1 00
nce	4	6	1	...	187	85	...	...	70	70	3,337	3,337	...	1 05
& Son	2	4	1	...	140	25	...	...	50	50	528	428	100	1 00
nnett	8	10	4	1	180	150	...	...	60	60	3,350	3,350	...	1 25
lams	1	2	...	...	120	...	...	...	...	...	350	350	...	1 00
vkins	3	3	...	...	150	...	...	...	...	...	1,000	1,000	...	1 00
n.	2	2	...	...	75	...	...	...	60	60	200	200	...	1 00
fton	2	2	...	...	90	...	...	...	...	...	375	375	...	1 00
lor	4	6	2	...	60	12	...	...	55	55	347	260	87	1 00
ros	3	4	1	...	200	30	...	...	55	55	1,600	1,200	400	1 25
ridge	2	3	1	...	160	72	...	...	60	60	1,800	1,800	...	1 00
lycross	4	4	1	...	190	75	...	...	60	60	1,600	1,200	400	1 00
verages	1,114	1,524	600	88	...	20913	9	29	...	...	1,177,375	1,033,305	144,070	...
verages					171	...	...	...	\$0 566	\$0 566	...	...	...	\$0 823

Woodford County—Third District—1895.

Name of firm, company or person operating mine.	Town or postoffice nearest the mine.	CHARACTER OF PLANT.										Estimated number of acres worked out during the year.
		Drift, Slope or Shaft.	Power—Steam, Horse or Hand.	Shipping or Local mine.	Hand or Machine mine.	Long-wall or Pillar-and-Room.	Old, New or Abandoned mine.	Paid weekly, semi-monthly or monthly.	Depth of coal below the surface—feet.	Thickness of seam—feet and inches.	Geological number of seam.	
Chicago & Minonk Coal and Tile Co.....	Minonk	Sh.	St.	Sh.	H.	L. W.	O.	S. M.	550	2, 6	2	19.35
Roanoke Mining Co.....	Roanoke	"	"	"	"	"	"	"	480	2, 4	2	16.31
Totals (2 mines).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	35.56
Averages .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Recapitulation of Coal Mines by Counties—

COUNTIES.	MINES.					MINERS.							
	Number of mines.	Shipping mines.	Mines in local trade.	New mines.	Abandoned mines.	Estimated number of acres worked out during the year.	No. of miners and others employés.				Average number of running days.	Number of kegs of powder used.	Casualties.
							Average No. of miners.	Highest No. of miners.	No. of other employés.	No. boys under ground.			
Cass	3	1	2	..	..	3.49	21	25	8	1	227	6	..
Fulton	89	17	72	9	2	100.86	690	1,095	227	40	169	17,352	..
Logan	3	3	..	..	..	41.93	95	129	50	4	238	4,080	..
McLean	4	3	1	1	..	18.59	350	315	88	8	245	1,550	1
Menard	10	7	3	1	..	49.54	269	433	106	4	179	9,579	1
Peoria	79	21	58	1	8	100.32	627	1,030	189	31	167	16,359	2
Tazewell.....	11	4	7	2	..	22.80	145	250	39	4	192	4,594	1
Vermilion	61	21	40	13	5	198.50	1,114	1,524	600	38	171	30,913	9
Woodford	2	2	..	..	..	35.56	.....	413	98	35	179	15	1
Totals	362	79	183	26	15	571.49	.....	5,302	1,405	165	.....	75,048	16
Averages .....	..	..	..	..	..	..	356	.....	.....	.....	196.3	.....	..

FOURTH INSPECTION DISTRICT--1895.

MR. GEORGE A. SCHILLING,

Secretary of the Bureau of Labor Statistics, Springfield, Illinois.

SIR:—In accordance with section twelve of "An act providing for the health and safety of persons employed in coal mines," I have the honor to present the twelfth annual coal report of the Fourth Inspection District for the year ending July 1, 1895.

The following is a summary of the tabular statements for all of the counties in the district:

Total number of mines.....	184
Total number of shipping mines.....	67
Total number of local mines.....	67
Highest number of men employed under ground.....	7,039
Number employed on the surface.....	966
Boys under 16 years of age employed under-ground.....	206
Total tons of all grades sold or consumed.....	5,612,764
Total tons of lump coal produced.....	4,154,538
Total tons of other grades.....	1,458,226
Number of fatal accidents to employes.....	15
Number of non-fatal accidents to employes.....	139
Number of fatal accidents to others not employes.....	1
Number of tons produced to each fatal accident.....	374,184
Number of tons produced to each non-fatal accident.....	40,379
Fatal accidents per 1,000 employes.....	1.87
Non-fatal accidents per 1,000 employes.....	17.3

New Mines.—In Macoupin county, the Green Ridge Coal Company has opened a mine on the Chicago & Alton Railroad, one and one-half miles south of Girard. The equipment consists of a Litchfield first motion double hoisting engine, four boilers and a Canty tippie. The latter is a device for automatically running the car off the cage, dumping the coal and returning the car to the cage; practically, the same results are obtained as with a self-dumping cage, without the danger of having an unstable platform for conveying men in the shaft.

At Litchfield, Montgomery county, the Litchfield Mining and Power Co., has sunk a shaft. The surface plant is of a high grade. The mine buildings are brick; a Litchfield hoisting engine, three boilers and shaking screens have been installed. The seam has not proven satisfactory to the promoters.

Abandoned Enterprises.—The Ramsey Coal Company commenced to sink a shaft at Ramsey, Fayette county, and abandoned it after sinking about seventy feet in drift.

Developments.—The Moweaqua Coal Mining & Manufacturing Company, Moweaqua, Shelby county, has sunk its shaft to the depth of 900 feet and is prospecting a seam of coal five feet two inches in thickness, which is inter-stratified near the middle by two feet of rock.

Safety Appliances.—The Madison Coal Company has placed a Hooker steam pump for fire purposes on the surface at mines 1 and 2, Glen Carbon. The mines of this company are all equipped with steam pumps, inclosed hydrants and several sections of hose, each one hundred feet in length.

Escapements.—An escapement shaft 982.8 feet deep has been sunk at the mine of the Assumption Coal & Mining Company, Assumption, Christian county, it is equipped with hoisting engine, new cables and cages.

The Chicago-Virden Coal Company, Virden, Macoupin county; the Citizens Coal Mining Company, Springfield, Sangamon county, and the Williamsville Coal Company, Williamsville, Sangamon county have sunk escapement shafts during the year. The Riverton Coal Company has connected the under-ground workings of its Nos. 1 and 2 mines.

Improvements.—The consolidated Coal Company of St. Louis, has constructed a reservoir of 5,000,000 gallons capacity, midway between Gillespie and Clyde mines. At No. 8 mine, Mount Olive, a new head frame has been erected. At No. 10 mine, Mount Olive connection has been made with the C. P. & St. L. R'y., necessitating the reconstruction of the top works, to which has been added new bunkers and shaking screens for small coal.

The Penwell Coal Company, Pana, Christian county, has erected a 20 ft fan and the Wilmington and Springfield Coal Company, Ridgely, Sangamon county, has erected a 15 foot fan.

Payment for Mining.—Several mines in the district have been leased to one or more persons who employ the labor and place the coal in the railroad car at a certain price per ton, the company owning the mine and selling the product. This is somewhat similar to the "butty collier" system that obtains in some parts of Europe; its introduction is to be deprecated, as wherever it exists, mines are not kept up to a good standard and accidents are more frequent than where the work is begun and directed throughout, by the engineers and managers of a responsible firm. Few stores are owned directly by firms operating mines in the district, though at many mines, credit checks payable in merchandise are issued at the office and the amount deducted from the earnings of the employé. At some mines orders are issued on stores and cashed at eight per cent discount by the merchants.

It is difficult to compute the average price paid for hand-mining, as at different mines the amount of coal paid for, ranges from gross weight to fifty-two per cent of the contents of the pit-car. At machine mines labor is more specialized than at hand-mines and different rates and methods of payment obtain. At hand-mines, where the coal is undermined or blasted from the solid, the miner is usually paid for the weight of the coal in the pit-car, or after it is screened. At a few mines where coal is blasted from the solid the division of the blaster and the loader exists; the blaster is paid by the day, the loader by the pit-car. At machine mines the cutters and helpers are usually paid by the square foot, or by the day; blasting, timbering and loading are usually combined and paid for by the car. At a few machine mines blasting, timbering and loading are separated, the ratio of accidents from falls of roof are less than where these different operations are performed by the same man. At machine mines some opposition has been shown by persons

paid by the pit-car to that method of payment for their work: they desire that the coal should be weighed on top scales. The change is desired on the grounds that the contents of a pit-car is a varying quantity, that during dull work the energies of the mine managers and their assistants are chiefly expended in coercing or flattering the loaders to put more coal on top of each pit-car. If the coal is paid for by weight or strike measure, that part of the time of the managers that is taken up with the top of the pit-cars may be used to better purpose in looking after the safety of the men.

Accidents.—During the year 139 accidents happened by which the injured persons lost one week or more of working time. Sixteen accidents happened by which fifteen employés and one other person were killed. Following is a detailed statement of each fatal accident.

August Stoufer, aged 26 years, single, occupation, miner, was killed July 14, 1894, at the mine of the Virden Coal Company, Virden, Macoupin county. He was tamping a hole when a piece of the roof fell killing him instantly. He was an inexperienced miner and was working alone on the day of the accident.

Wm. Roose, aged 54 years, married, leaves a widow and two children, occupation, miner, was killed Sept. 10, 1894, at the mine of the Spring-side Coal Mining Company, Pana, Christian county. Wm. Roose and his partner, Samuel McConnell, had commenced to turn a room from another room, while they were under-mining the first cut, the loose coal fell killing Roose and bruising McConnell.

Matthew Becker, aged 37 years, married, leaves a widow and three children, occupation, miner, was killed at the mine of the Assumption Coal & Mining Company, Assumption, Christian county, September 18, 1894. He was under-mining when a piece of roof fell on him killing him instantly. There was a slip in the roof running across the room and inclined towards the face; the rock that fell parted from this slip and long-wall break in the roof near the face.

Bert Brown, aged 17 years, single, occupation, miner, was killed by a fall of roof at the local mine of F. M. Brown, of Shelbyville, Shelby county, October 17, 1894. The father of Bert Brown and another man, both inexperienced miners had opened a drift and were turning a room at the time of the accident.

Rollie McGhee, aged 29 years, married, leaves a widow and three children, occupation, topman, was killed October 22, 1894, at the mine of the Green Ridge Coal Company, Girard, Macoupin county. The shaft was sunk during the summer of 1894. The top works were in the course of erection at the time of the accident. Only one compartment of the shaft was used for hoisting. The coal was hoisted on a small cage to a temporary landing in the tower; no gates nor cover were over the hoisting compartment at this landing. When a car of coal was hoisted the cage was kept on top until the car was dumped and the empty car returned to the cage. A car of coal had been hoisted, McGhee ran the car to the tripple about 20 feet away; while he was dumping the car, a miner who had been up to have his tools sharpened, went down on the cage. McGhee finished his work at the tripple and not noticing that the cage was away from the landing, pushed the car into the shaft and fell to the bottom with it. The cage had reached the bottom a few seconds before and the miner who descended had left the cage.

An unknown man, apparently about 45 years of age was killed by falling down the hoisting shaft of No. 5 mine of the Madison Coal Company, Mount Olive, Macoupin county, at 5:20 p. m., October 30, 1894. The cage in the compartment down which he fell had reached the bottom a few seconds before. The hoisting shaft being the upcast and the day being cold caused the ascending damp air to form a haze about the lower landing. The gates at the surface were closed, they were built of boards without any spaces between them. The circumstances attending the death of the man were apparently as follows: He was homeless and unemployed, shortly before, he called at another mine in the vicinity and was ordered away; from questions asked by him at the first mine at which he called, it was evident that he was unacquainted with the surroundings of a coal mine. As it was getting towards evening he wished to find shelter for the night in the mine buildings; he approached the mine at which he met his death unobserved and looked around for a place to conceal himself until work stopped for the day. At the time of his arrival, there was no coal at the bottom of the shaft, as coal was not being hoisted just at the time; he probably did not suspect that there was an opening in the ground at that place, so climbed over the gate for concealment and fell a depth of 435 feet to the bottom of the shaft.

John McRoberts, aged 27 years, miner, was killed at 3 p. m., December 7, 1894, at the mine of the Assumption Coal & Mining Company, Assumption, Christian county. He was taking down coal from the face when a piece of roof fell on him. A few minutes before, his partner had called his attention to the unsafe condition of the roof under which he was working. He had been out of the room a considerable part of the forenoon waiting for his tools; at the time of the accident, he was working very hard to load a full day's coal. He was more occupied with his work than with his personal safety. He left a widow.

Dominick Johnson, aged 24 years, single, occupation, sinker, was injured in the escapement shaft of the Assumption Coal & Mining Company, Assumption, Christian county, on December 17, 1894. The shift was timbering; the rope was sent up for timber, the topman took hold of the hook at the end of the rope to attach the timber to it when the hook, clevis and bolt became disconnected and fell out of his hand and went down the shaft. The hook struck Johnson on the thigh injuring him so severely that amputation became necessary, to this he would not consent, septicaemia set in and he died on Dec. 22, 1894.

William Nees, aged 17 years, single, occupation, laborer, was killed at the mine of the Springfield Junction Coal Company, Iles Junction, Sangamon county, June 15, 1895. The teamster was pulling a railroad car under the small coal bunker, Nees was attending the brake, his head struck a beam and was caught between the bottom of the beam and the top of the moving car crushing his head so that he died instantly.

Edward O'Farrell, aged 35 years, single, occupation, timberman, was injured January 18, 1895, at Abbey No. 3 mine of the Consolidated Coal Company, located at Collinsville, Madison county. He was knocking a prop from under the loose rock, when the rock swung the prop causing it to strike him on the body. At the time of the accident it was not thought that he was seriously injured. He died of internal hemorrhage the following day.

John Baldes, aged 25 years, married, occupation, stableman, was killed at the mine of the Wilmington & Springfield Coal Company, Ridgely, Sangamon county, at 6 a. m., January 26, 1895. Edward Pamplin, Wm. Sack and John Baldes got on the cage at the lower landing to go down the shaft. The man in charge of the engine hoisted the cage instead of lowering it; as the cage passed the upper landing Pamplin and Baldes jumped off. Pamplin alighted safely, Baldes fell to the bottom of the shaft a distance of about 270 feet, and was instantly killed. Sack remained on the cage and was unhurt. The engineer had been in the employ of the company about six weeks; he stated that he had worked as an engineer since he was 16 years of age but mostly with stationary engines. Baldes leaves a widow and one child.

Thomas W. Smith, aged 56 years, married, a miner, was injured at the mine of the Clear Lake Co-operative Coal Company, Riverton, Sangamon county, on February 15, 1895, so that he died the following day. The miners working near him missed him at dinner time and found him about 60 feet from the face; his cap was near a standing shot that had been fired shortly before. His tamping tools were found put back so that it was evident that the blast by which he was injured was not fired while he was tamping the hole. He was so injured that he was not able to make any statement of how the accident happened. He left a widow and five children.

Joseph Mickey, aged 40 years, married, miner, was injured at the mine of the Springside Coal Company, Pana, Christian county, at 9:30 a. m., February 18, 1895 and died at 3 p. m. the same day. Mr. Mickey and several other miners were taking off coal from the side of the main entry to make room for a double track. Two days previously they had undermined a piece of coal; on examining it on the day of the accident they found it loose and resting on the sprags. Mr. Mickey was cutting through a piece of top coal that was connected with it when the top coal parted from the roof and fell on him. He left a widow and eight children.

Christopher Josavitt, aged 35 years, single, occupation, machine helper, was injured at the mine of the Taylorville Coal Company, Taylorville, Christian county, March 30, 1895, and died on the following day. He was shoveling from the machine when a piece of the roof fell on him. In one corner of the room where he was working there was a downthrown of two feet; four slips were in the roof near the downthrow. A few minutes before the accident he had sounded the roof and pronounced it safe.

George McKenna, aged 18 years, single, occupation, gripper, was injured at 10:45 a. m., April 17, 1895 at the mine of the Springside Coal Mining Company, Pana, Christian county, and died at 3:30 p. m. the same day. He stopped the trip at the top of a hill on signal from a boy who attended the parting at the mouth of the entry towards which he was coming. He was signaled to come ahead, as he did not come, the fireboss went to see what was the matter with him. He was found lying at the side of the entry, unconscious and remained so until he died. As the grip was disconnected from the cable and his seat was found under the first car of the trip, it is probable that on receiving the signal to stop, he had disconnected the grip and the cars not stopping on the hill as readily as he desired, that he tried to stop them by placing his

seat on the rail in front of the trip and was thrown down in front of the first car and afterwards crept to the side of the track before becoming unconscious.

Wesley P. Thompson, aged 33 years, married, occupation, top foreman, was killed at 7:15 p. m., June 3, 1895, at the Gillespie mine of the Consolidated Coal Company of St. Louis, Macoupin county. At this mine timber is sent down on one cage only. Mr. Thompson wanted a pit lamp to see to load timber on the cage and shouted to the men below to send one up. The timber had been unloaded from the cage and the signal to hoist given to the engineer. The descending cage struck Mr. Thompson and took him to the bottom. It is supposed that at the time he was calling for the lamp he was lying down on the surface with his head over the shaft and thoughtlessly remained so until the descending cage struck him and carried him to the bottom.

The following tables give detailed information regarding fatal and non-fatal accidents which have occurred in this district during the year:

Fatal Casualties—Fourth District—1895.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widow.	Children.	Single.	Dependents.	Cause of Accident.
1894.										
July 14	August Stoufer.....	26	Miner.....	Virden.....	..	..	..	1	..	Fall of roof.....
Sept. 10	Wm. Rose.....	54	".....	Pana.....	1	1	2	..	2	Fall of coal.....
" 18	Matthew Becker.....	37	".....	Assumption	1	1	3	..	4	Fall of roof.....
Oct. 17	Bert Brown.....	17	".....	Shelbyville..	..	..	..	1	..	Fall of roof.....
" 22	Rollie McGhee.....	29	Topman.....	Girard.....	1	1	3	..	4	Fell down shaft.....
Dec. 7	John McRoberts.....	27	Miner.....	Assumption..	1	1	..	..	1	Fall of roof.....
" 17	Dominick Johnson..	34	Sinker.....	".....	..	..	..	1	..	Hook fell down the shaft
1895.										
Jan. 15	Wm. Nees.....	17	Laborer.....	Springfield..	..	..	..	1	..	Crushed between frame and railroad car.....
" 21	Edward O'Farrell....	35	Timberman..	Collinsville..	..	..	..	1	..	Falling timber.....
" 28	John Baldes.....	25	Stableman..	Springfield..	1	1	1	..	2	Fell down shaft.....
Feb. 15	Thos. W. Smith.....	56	Miner.....	Riverton.....	1	1	5	..	4	Struck by coal from shot
" 18	Joseph Mickey.....	40	".....	Pana.....	1	1	8	..	9	Fall of coal.....
Mar. 30	Christ. Josavitt.....	35	Helper.....	Taylorville..	..	..	..	1	..	Fall of roof.....
April 17	Geo. McKenna.....	18	Gripper.....	Pana.....	..	..	..	1	..	Run over by pit cars....
June 3	Wesley P. Thompson	32	Top foreman	Gillespie.....	1	1	2	..	3	Struck by desc'd'g cage
	Totals—15.....	..	..	..	8	8	24	7	2	

Recapitulation of Fatal Accidents—Fourth District—1895.

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Assumption.....	3	Gripper.....	1	Crushed bet. frame and railroad car...	1	A. C. & M. Co.....	3
Collinsville.....	1	Helper.....	1	Descending cage.....	1	Con. Coal Co.....	2
Gillespie.....	1	Laborer.....	1	Fall of coal.....	2	C. L. Coop. C. Co.....	1
Girard.....	1	Miner.....	7	Fall of roof.....	5	F. M. Brown.....	1
Pana.....	3	Sinker.....	1	Falling down shaft..	2	Green Ridge Coal.....	1
Riverton.....	1	Stableman..	1	Falling timber.....	1	Springfield J. C. Co.....	1
Shelbyville.....	1	Top foreman..	1	Hook fell down shaft	1	Springdale C. M. Co.....	3
Springfield.....	2	Topman.....	1	Pit cars.....	1	Taylorville C. Co.....	1
Taylorville.....	1	Timberman..	1	Struck by coal from shot.....	1	Virden Coal Co.....	1
Virden.....	1				1	W. & S. Coal Co.....	1
Totals.....	15		15		15		15

Non-Fatal Casualties—Fourth District—July 1, 1895.

Date.	Name.	Age.	Residence.	Married.	Children.	Single.	Dependents.	Character of Injury and Cause of Accident.	Time lost—days.
1894									
July 6	Thos. Cairns	45	Springfield	1	2		3	Shoulder injured by falling of roof	26
" 7	E. Lambert		Pana					Head injured by falling prop.	25
" 12	Jas. Hampton		"					Arm injured by coal falling down shaft.	27
" 16	H. Gordon		"					Falling coal.	29
" 23	J. Merkopski		"		1			Squeezed by pit cars.	30
" 26	Geo. Hulson		"					Brained	20
" 28	A. Dereshburg		"					Back bruised by pit cars.	48
" 28	E. Cooper	35	"	1	1		2	Toe broken by falling coal.	13
" 30	J. Hardy	40	"					Shoulder injured by falling roof.	29
Aug. 1	F. Gallagher	50	"		1			Scalded foot.	9
" 9	George Fenton	30	"		1			Foot hurt.	13
" 10	E. Linton	18	Gillespie		1			Toe injured by pit car.	21
" 11	John White	30	Pana		1			Foot hurt.	12
" 13	Carl Nipes	35	Gillespie		6		7	Arm broken by falling coal.	35
" 14	G. Schnyder	47	Staunton	1	10		9	Powder burns, returned to shot that hung fire.	35
" 14	Adam Law		Pana					Foot injured by falling coal.	19
" 20	M. Chernuk	40	Springfield	1	4		5	Head injured by shot through pillar.	24
" 20	J. hn Smith	29	Pana		1			Foot injured by fall of roof.	27
" 22	Geo. Hulson		"		1			Head caught between pit cars.	48
" 23	John Walden		"					Prop fell on foot.	15
" 23	John Evans		"					Foot injured by pit car.	15
" 26	F. Bauman	45	Mount Olive	1	4		5	Toes injured by falling coal.	18
" 28	Wm. Burton	52	Springfield	1	4		5	Body injured by shot through pillar.	14
Sept. 4	F. Bocamp	22	Gillespie		1			Spine injured by pit cars.	*
" 10	S. McConnell	50	Pana	1	1		2	Head cut by falling coal.	18
" 12	John Reid	16	Springfield		1			Arm dislocated by pit car.	24
" 20	Jacob Bub	30	Staunton		1			Toe broken by machine falling on it.	12
" 20	Fred Gaston		Pana					Hand bruised loading rock.	12
" 26	H. Eggeman		"					Foot injured by falling roof.	18
Oct. 5	R. Yeakey	45	Springfield	1	6		7	Foot injured by elevator chain.	60
" 7	John Jones	40	Staunton	1	5		6	Scalded by steam.	8
" 9	Chas. Knoemiller	21	"		1			Body bruised by fall of roof.	6
" 9	Jos. Wainwright	3	Virden	1	2		8	Arm broken by fall of roof.	172
" 12	Truman Piper	18	Girard		1			Fingers injured by pit car.	10
" 12	Wm. Bocam		Pana					Hand injured by falling roof.	7
" 13	Chas. Thompson	30	Assumption		1			Leg broken by descending cage.	78
" 15	Louis Davidson	40	Virden	1	4		5	Body bruised by falling roof.	61
" 15	Wm. Rudolph	43	Mount Olive	1	7		6	Collar bone broken by falling roof.	36
" 16	John Altfeldsch	47	Staunton	1	1		1	Arm broken by falling roof.	154
" 17	Chas. Granly	19	Mount Olive		1			Leg bruised by railroad cars.	16
" 19	Wm. Slade	52	Moweaqua		1			Powder burns by shot.	18
" 19	F. Howard	14	"		1			Powder burns by shot.	18
" 23	Mores Walker		Pana					Finger injured setting prop.	11
" 23	Wm. Pam		"					Finger broken by prop.	16
" 23	Jas. Bishop	23	Moweaqua		1			Head bruised by pit car.	6
" 23	Q. Hammond	44	Chatham	1	4		5	Back injured by falling coal.	25
" 26	John Baldes	36	Springfield	1	2		3	Arm broken by pit car.	40
" 3	John Oehler	60	Mount Olive	1	3		1	Leg broken by falling roof.	209
Nov. 7	Wilford Utley	64	Collinsville	1	1		1	Leg broken by falling roof.	171
" 8	Phillip Van	30	Auburn	1	2		3	Burned by loose powder.	85
" 16	Vincent Kuhl	35	Springfield	1	4		4	Burned by loose powder.	50
" 21	A. Immeroth	16	Staunton		1			Chest injured by kick from mule.	21
" 26	David Henson	19	Pana		1			Hand cut by pick.	6
" 27	John Baner		"					Back injured by barrel.	10
Dec. 4	Joseph Hockel		"					Leg injured by falling roof.	22
" 6	Harry Bond	16	Virden		1			Arm broken, caught between pit cars.	47
" 7	Wm. McAndrews	56	Springfield	1	4		5	Body injured by fall of roof.	30
" 17	Andrew Thomi	33	Moweaqua	1	2		2	Leg broken and eye destroyed by shot through pillar.	90
" 17	Geo. Evanski	26	"		1			Scalp wound, shot through pillar.	30
" 17	Peter Jura	27	"		1			Powder burns: ignited by lamp.	40
" 17	E. Tourdelet		Pana					Head cut by falling coal.	17
" 20	Wm. Sampson, Jr.	19	"		1			Foot cut by pick.	6
" 21	M. Goldsmith	16	Virden		1			Arm broken by pit car.	60

* Seriously injured; not working yet.

Non-Fatal Casualties—Fourth District—Continued.

Date.	Name.	Age.	Residence.	Married.	Children.	Single.	Dependents.	Character of Injury and Cause of Accident.	Time lost—days.
1894									
Dec. 22	John Jett.....	41	Coffeen.....	1	1		1	Leg broken by falling coal.....	141
" 24	J. Nikolski.....	24	Springfield.....			1		Wrist broken by pit car.....	35
" 26	A. McFarland.....	55	Pana.....	1	3		2	Foot hurt.....	7
" 29	Jos. Balby.....	35	Springfield.....	1	4		5	Body bruised, returning to shot.....	21
1895									
Jan. 1	Lewis Woods.....	26	Virden.....			1		Body bruised by pit car.....	22
" 2	B. Hollinshead.....	38	".....			1		Arm broken by coal at chute.....	20
" 3	Geo. Davis.....	46	Springfield.....	1	4		5	Arm injured by coal from blast.....	30
" 4	Geo. Ban.....	30	Staunton.....	1	4		5	Ankle dislocated by falling coal.....	18
" 4	Chas. Schott.....	38	Mt. Olive.....			1		Knee injured by falling coal.....	12
" 5	Jos. Prott.....	18	".....			1		Leg injured by pit cars.....	36
" 5	Geo. Ayers.....	50	Pana.....	1	2		2	Arm bruised.....	18
" 9	Hy. Gallup.....	40	Carrollton.....	1	4		5	Spine injured by fall of roof.....	*
" 14	Hy. Zimmerly.....	29	Springfield.....			1		Leg bruised by pit cars.....	18
" 16	M. Kneedles.....	17	Collinsville.....			1		Leg amputated by falling roof.....	*
" 16	H. M. Young.....	30	Girard.....	1	2		1	Toes crushed by falling roof.....	35
" 16	H. Knoemiller.....	46	Staunton.....	1	4		4	Back injured by pit cars.....	8
" 16	P. Carneski.....	36	Pana.....			1		Nose broken by falling roof.....	10
" 21	Lyman Moore.....	"	".....					Hand injured by pit car.....	24
" 23	H. Gronnewald.....	36	Litchfield.....	1	2		3	Back injured by falling roof.....	48
" 24	J. W. Kitson.....	40	Collinsville.....	1	3		4	Bruised by railroad cars.....	13
" 26	J. H. Graver.....	"	Pana.....					Back injured by pit car.....	36
" 26	T. Tenbush.....	46	".....	1	2		2	Foot hurt.....	11
" 28	Thos. Kairns.....	45	Springfield.....	1	2		3	Skull fractured by falling roof.....	70
" 30	Jas. A. Jones.....	47	Virden.....	1	2		3	Body burned by ignited powder smoke.....	25
" 30	George A. Kesser.....	39	".....	1	2		3	Body burned by ignited powder smoke.....	50
" 30	John Murphy.....	30	Pana.....			1		Fingers mashed coupling cars.....	8
" 30	Joseph Spover.....	36	Mt. Olive.....			1		Body bruised by falling roof.....	24
Feb. 6	Jas. McDermott.....	18	Pana.....			1	1	Squeezed by pit cars.....	10
" 8	F. Rossman.....	31	Carlinville.....	1	1		1	Leg crushed by falling coal.....	*
" 11	M. Watts.....	46	Pana.....	1	6		7	Back sprained.....	17
" 12	Geo. Marritt.....	50	".....					Toe injured by falling coal.....	12
" 12	Jas. O'Brien, Sr.....	50	".....	1	3		4	Collar bone broken by falling coal.....	30
" 19	J. J. Throphile.....	37	Collinsville.....			1		Toe broken by fall of roof.....	47
" 23	J. Kurkoski.....	29	Pana.....			1		Toe injured by fall of coal.....	11
" 24	John Kinghorn.....	31	Staunton.....	1	4		5	Shoulder dislocated by falling from boiler.....	12
" 25	T. C. Rose.....	30	Pana.....			1		Toe injured by falling coal.....	19
Mar. 4	Joseph Macon.....	3	Assumption.....	1	3		4	Fingers injured coupling railroad cars.....	24
" 4	J. Cowan.....	60	Pana.....	1	4		5	Injured by falling coal.....	28
" 4	Elmer Dickey.....	21	".....			1		Three ribs broken by pit cars.....	45
" 4	Fred Elliott.....	"	".....			1		Sprained knee holding back pit cars.....	79
" 6	Wm. Cammeron.....	36	Glen Carbon.....	1	2		3	Back injured by fall of roof.....	14
" 8	Jas. Taylor.....	45	".....	1	6		7	Leg cut with ax.....	8
" 11	C. N. Becker.....	45	Collinsville.....	1	5		6	Scalp wound from fall of roof.....	18
" 11	D. Rhodes.....	"	Pana.....					Shoulder injured by mine car.....	23
" 13	John Allen.....	30	Roodhouse.....	1	2		3	Body bruised by falling coal.....	30
" 15	N. Paul.....	46	Collinsville.....	1	5		6	Powder burns, drilling out a hole.....	10
" 16	A. Broadman.....	"	Pana.....					Broken finger, loading coal.....	18
" 18	C. Lamot.....	29	".....	1	3		4	Head cut by falling roof.....	18
" 18	Joseph Cowan.....	17	".....			1		Foot hurt.....	40
" 21	Otto Arndt.....	17	Staunton.....			1		Shoulder bruised by pit cars.....	24
April 1	Wm. Lockard.....	"	Pana.....			1		Back bruised by fall of roof.....	10
" 1	John Yist.....	21	".....			1		Head injured by falling slate.....	50
" 2	Arno Schneider.....	22	Mt. Olive.....			1		Leg broken by pit car.....	37
" 8	C. Nihardt.....	"	Pana.....					Fingers injured coupling railroad cars.....	36
" 8	C. Holtzweg.....	52	Glen Carbon.....	1	5		6	Wrist injured by pit cars.....	9
" 8	John McCall.....	16	Mt. Olive.....			1		Arm broken by pit cars.....	30
" 10	Gus Haubrick.....	40	Staunton.....	1	9		7	Eye injured by pyrites.....	35
" 10	H. Wentner.....	46	Pana.....	1	2		3	Fingers hurt.....	17
" 11	J. F. Mays.....	35	Moweaqua.....	1	1		2	Kicked by mule.....	11
" 19	J. Revoy.....	40	Pana.....	1	2		2	Arm hurt.....	11
" 22	Wm. Dann.....	32	Gillespie.....	2	2		3	Hand injured by pit cars.....	22
" 22	J. P. Courtenay.....	24	".....			1		Hips bruised by pit cars.....	29
" 27	John Enlow.....	"	".....					Injured by pit car.....	10

* Seriously injured; not working yet.

Non-Fatal Casualties--Fourth District--Concluded.

Date.	Name.	Age.	Residence.	Married.	Children.	Single.	Dependents.	Character of Injury and Cause of Accident.	Time lost—days.
1895									
May 7	Edward Lundock	19	Collinsville			1		Leg broken by falling coal	*
" 16	John Lester	"	Pana					Head cut by falling roof	8
" 16	John Isaacs	21	"			1		Finger injured by falling roof	11
June 7	Luke Egan	56	Springfield	1	8			Body injured by falling roof	50
" 10	M. Robinson	40	Virden	1	2			Ankle injured by fall of roof	21
" 11	Wm. Knoemiller	18	Staunton			1		Head bruised by falling roof	21
" 13	John Barnett	"	Pana					Eye injured by piece of coal	14
" 14	Wheeler Fay	18	Assumption			1		Hand injured coupling cars	14
" 17	Wm Cummings	17	Pana			1		Hand cut by haulage cable	12
" 17	John Franklin	19	Taylorville			1		Internal injuries from falling coal	9
" 20	Benj. Walden	"	Pana					Eye injured by piece of coal	83
" 22	John Greendahl	43	Staunton	1	5			Leg broken by falling coal	17
" 27	F. Foster	29	Pana			1		Foot hurt	17
Totals—139 injured				47	172	49	300		3624

* Seriously injured; not working yet.

Recapitulation of Non-Fatal Accidents--Fourth District--1895.

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Auburn	1	Blacksmith	1	Arm hurt	2	Auburn Coal Co.	1
Assumption	3	Blaster	1	Axe	1	Assumption C. & M. Co.	3
Carlinville	1	Cager	4	Back sprained	1	Black Diamond C. Co.	2
Carrollton	1	Carpenter	1	Barrel	1	Carlinville C. Co.	1
Chatham	1	Car trimmer	2	Bruised	1	Chicago-Virden C. Co.	9
Coffeen	1	Driver	17	Cage	1	Coffeen Coal Co.	1
Collinsville	7	Engineer	2	Coal descending chute	1	Consolidated Coal Co.	32
Gillespie	4	Greaser	2	Coupling cars	1	D. J. Lloyd	1
Girard	2	Gripper	3	Eye injured by piece of coal	1	G. A. Hopkins	1
Glen Carbon	3	Helper	2	Eye injured by pyrites	1	Girard Coal Co.	2
Litchfield	1	Laborer	8	Elevator chain	2	Heintz Bluff Coal Co.	1
Moweaqua	7	Loader	15	Fall of roof	1	H. W. Wright	1
Mt. Olive	9	Manager	1	Falling coal	1	Litchfield M. & P. Co.	1
Pana	60	Miner	67	Falling slate	1	Madison Coal Co.	3
Roodhouse	1	Slackman	2	Falling from boiler	31	Moweaqua C. M. & M. Co.	7
Springfield	14	Stockman	2	Fingers hurt	22	Pana Coal Co.	14
Staunton	13	Timberman	5	Foot hurt	1	Penwell C. M. Co.	28
Taylorville	1	Topman	7	Haulage cable	1	Sangamon	2
Virden	9	Trapper	1	Ignited powder	6	Springfield C. M. & T. Co.	2
		Trip coupler	1	Load coal	1	Springfield J. C. Co.	18
				Loading rock	1	Starne C. Co.	5
				Machine falling	1	Taylorville C. Co.	1
				Mule	1	Woodside Coal Co.	1
				Pick	2	Wil. & Springfield C. Co.	1
				Pit cars	31		
				Powder	5		
				Prop	4		
				Railroad cars	4		
				Scalding	2		
				Shot (blasting)	8		
Totals, 19 places	139	30 occupations.	139	30 causes	139	25 collieries	139

Detailed information concerning each mine in the Fourth Inspection District will be found in the following tables, in which the mines are grouped according to the counties in which they are located, and finally the counties grouped in a recapitulation for the whole district.

Very respectfully,

JOHN KEAY,

State Inspector of Mines, Fourth District, Springfield, Ill.

Bond County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.													Average value of lump coal per ton at the mine.
	Miners employed.		All other employés	No. of boys employed under ground.	No. of working days in the year.	No. of kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.			
	Average during year.	Highest during year.					Injured.	Killed.	Summer.	Winter.	Total.	Lump coal.	Other grades.	
Sorento P. & M. Co..	60	90	23	90	173	2,607	..	..	\$0 40	\$0 42½	93,515	66,797	26,718	0 70
Total.....	60	90	23	90	...	2,007	..	..	.....	.....	96,515	66,797	26,718	.....
Averages.....									\$0 40	\$0 42½	.....	.....	.....	\$0 70

Calhoun County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.													Average value of lump coal per ton at the mine.
	Miners employed.		All other employes.	No. of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.			
	Average during the year.	Highest during the year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.	
Thomas Pressed B Co	18	26	7	3	276	480	..	..	\$0 80	\$0 80	9,200	9,200	.....	\$1.35
Total.....	18	26	7	30	276	480	..	..	.....	.....	9,200	9,200	.....	.....
Averages.....									\$0 80	\$0 80	.....	.....	.....	\$1.35

Christian County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.														Average value of lump coal per at ton the mine.
	Miners employed.		All other employes.	No of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.				
	Average during year.	Highest during year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.		
AssumptionC & M Co.	85	120	20	6	250	144	3	3	*\$0 71½	\$0 71½	48,888	34,858	13,530	\$1 05	
Smith & Williams...	15	45	11	...	100	572	...	...	50	50	13,303	10,825	2,478	1 05
Pana C. Co., mines 1-2	208	300	86	38	140	1,600	14	45	45	188,089	137,317	45,772	70
Penwell C. M. Co....	170	230	51	8	215	900	28	25	30	176,502	92,129	84,373	75
Springside C. M. Co..	180	200	50	3	140	600	3	18	50	50	141,079	82,106	58,973	65	
Taylorville Coal Co..	95	115	25	6	192	1,300	1	1	.....	.....	173,000	139,000	34,000	70
Totals.....	753	1,010	243	61	5,116	7 64	.....	.....	.....	.....	735,361	496,235	239,126	.....
Averages.....	.....	.....	.....	.....	172	.....	.....	.....	\$0 4701	\$0 4701	.....	.....	.....	.....

* Paid by gross weight.

Greene County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.														Average value of lump coal per ton at the mine.
	Miners employed.		All other employes.	No. of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.				
	Average during the year.	Highest during the year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.		
Whitehall F. C. Wks.	8	12	1	...	275	...	...	...	\$0 90	\$0 90	4,550	4,550	.....	\$1 25
Aaron Wiatt.....	1	2	...	...	300	...	...	...	87½	87½	300	300	.....	1 25
Thomas Wiatt.....	2	5	...	...	300	...	...	...	87½	87½	1,300	1,300	.....	1 25
G. A. Hopkins.....	2	18	2	...	130	...	1	...	80	80	1,500	1,500	.....	1 50
T. W. Griffiths.....	4	12	1	...	125	10	...	...	62½	62½	875	875	.....	1 25
Little & Israel.....	3	4	1	...	110	...	...	...	62½	62½	500	500	.....	1 25
A. Campbell.....	4	4	1	...	110	...	...	...	62½	62½	600	600	.....	1 25
Jas. Bigley.....	...	2	...	...	70	...	...	...	87½	87½	300	300	.....	1 12
Dan'l Cummings.....	1	4	...	...	78	...	...	...	87½	87½	500	500	.....	1 12
I. Carrollton.....	2	2	...	...	100	...	...	...	87½	87½	300	300	.....	1 12
C. E. Harper.....	1	2	...	...	80	...	...	...	87½	87½	300	300	.....	1 12
Trill Bros.....	...	2	1	...	100	...	...	...	60	60	320	320	.....	1 25
Harry W. Wright.....	...	1	...	...	...	...	1	...	.....	.....	100	100	.....	1 50
Charles Poole.....	...	1	...	...	...	...	...	...	.....	.....	100	100	.....	1 50
Totals.....	...	75	7	...	10	2	.....	.....	.....	.....	11,345	11,345	.....	.....
Averages.....	33	...	...	...	131	...	...	...	\$0 82	\$0 82	.....	.....	.....	\$1 27

Madison County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.															Average value of lump coal per ton at the mine.
	Miners employed.		All other employees.	No. of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.					
	Average during the year.	Highest during the year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.			
Con. C.C., Abbey No. 3	110	124	24	6	198	1,080	1	3	.....	.....	158,309	12,798	37,416	\$0 70
" " Heintz B'f	85	94	17	3	201	999	4	.....	.....	.....	144,485	105,688	88,797	70
" " Troy	70	78	13	2	163	337	.....	.....	.....	.....	55,259	35,652	19,607	1 00
" " Brookside.	48	56	8	1	161	430	.....	.....	.....	.....	37,024	27,211	9,813	1 00
" " McDonald.	2	2	1	.....	144	14	.....	.....	.....	.....	620	522	104	70
Coar & Lenart.....	32	37	6	.....	216	610	.....	.....	\$0 40	\$0 41½	28,285	28,285	.....	59
Madison Coal Co. No. 1	96	115	15	.....	206	1,705	.....	.....	.....	.....	106,650	72,941	33,709	55
" " No. 2	190	220	20	3	186	2,993	3	.....	.....	.....	211,074	151,781	59,293	55
" " No. 3	60	95	14	2	104	454	.....	.....	.....	.....	50,315	37,858	12,457	70
" " No. 4	75	120	10	.....	163	1,462	.....	.....	.....	.....	98,899	68,331	30,568	55
P. Wonderly & Co....	24	37	8	.....	200	554	.....	.....	40	40	13,557	12,331	1,226	70
Lumaghi Bros.....	65	82	10	.....	198	2,130	.....	.....	.....	.....	66,278	52,668	13,610	70
Nathan Sydal.....	5	6	1	.....	160	.....	.....	.....	87½	87½	1,715	1,715	.....	1 50
John Pierce.....	4	4	1	.....	109	.....	.....	.....	87½	87½	580	580	.....	1 27
B. F. Elfen.....	2	3	1	.....	100	.....	.....	.....	87½	87½	600	600	.....	1 37
Taylor & Ball.....	2	2	1	.....	25	.....	.....	.....	87½	87½	700	700	.....	1 37
J. J. Moiloy.....	3	4	1	.....	130	.....	.....	.....	87½	87½	800	800	.....	1 20
John Spencer.....	2	4	1	.....	130	.....	.....	.....	75	75	300	300	.....	1 25
L. Yager.....	1	2	.....	.....	110	.....	.....	.....	75	75	240	240	.....	1 25
Wm. Richardson.....	1	2	.....	.....	90	.....	.....	.....	75	75	1,600	1,600	.....	1 25
Chas. Kabel.....	4	5	1	.....	175	.....	.....	.....	75	75	240	240	.....	1 25
W. H. Schaefer.....	1	3	1	.....	90	.....	.....	.....	75	75	625	625	.....	1 25
Wm. Chalengsworth.	4	5	1	.....	75	.....	.....	.....	75	75	.....	.....	.....	.....
Totals.....	1,100	155	17	.....	12,768	1 10	.....	.....	.....	.....	978,161	721,561	256,600	.....	
Averages.....	886	.....	.....	.....	150	.....	.....	.....	\$0 464	\$0 474	.....	.....	.....	\$0 67

Montgomery County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.														Average value of lump coal per ton at the mine.
	Miners employed.		All other employees.	No. of boys employed under ground.	No. of working days in the year.	No. of kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.				
	Average during year.	Highest during year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.		
Coffeen C. & C Co...	76	104	42	4	178	1,091	1		\$0 40	\$0 40	63,314	58,791	4,523	\$0 68	
Hillsboro Coal Co....	125	153	35	....	239	1,863	....	....	50	50	121,341	80,000	40,341	75
Litchfield M. & M. Co	23	32	15	....	174	30	....	....	67½	67½	8,746	5,746	3,000	1 35
Litchfield M. & P. Co	14	23	8	....	161	275	1	....	55	55	5,541	2,915	2,626	90
Totals.....	....	312	100	4	....	3,259	2	....	....	....	197,842	147,452	50,390	....
Averages.....	238	....	....	....	188	....	....	....	\$0 4679	\$0 4679	....	....	....	\$0 74

Sangamon County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.														Average value of lump coal per ton at the mine.
	Miners employed.		All other employes.	No. of boys employed under ground.	No. of working days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.				
	Average during year.	Highest during year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.		
Anburn Coal Co.	20	26	6	...	200	200	1	...	35	35	15,000	7,800	7,200	\$1 00	
Sugar Cr'k C. & M. Co.	18	51	27	...	207	1,792	...	...	...	...	36,708	22,665	14,043	70
D. J. Lloyd	25	35	8	...	200	650	1	...	35	35	80,000	22,250	7,750	85	
Black Diamond C. Co.	45	60	18	4	225	2,300	...	2	...	...	69,813	55,952	13,861	80
Springfield Junc. C. C.	60	57	18	3	175	1,820	1	1	40	45	43,610	36,400	7,200	75	
Woodside Coal Co. ...	50	84	30	10	120	3,148	...	1	35	40	69,566	51,531	18,035	75	
Capital C. C. No. 1. ...	28	28	9	...	250	1,297	...	...	40	40	33,204	31,627	1,577	77
" " No. 2.	68	75	15	...	250	2,818	...	...	40	40	78,428	68,589	9,839	92
Citizens C. M. Co. ...	35	53	11	...	160	1,775	...	...	40	42	53,951	40,325	13,626	90
Sangamon Coal Co. ...	62	1 08	26	...	83	2,215	...	2	35	40	58,949	41,828	17,121	76	
Starnes C. M. Co. ...	60	65	20	4	110	1,600	...	5	35	40	49,500	35,000	14,500	84	
Sp'gfield C. M. & T. Co.	50	90	30	3	128	1,828	...	2	35	40	52,034	38,387	13,647	80	
Sp'gfield Coop. C. Co.	40	60	20	3	270	1,508	...	...	40	40	44,150	35,000	9,150	80
West End Coal Co. ...	30	50	18	...	150	1,312	...	...	40	40	38,601	29,576	8,925	91
Wilmington & Sp. C. C.	90	120	40	3	223	1,300	1	1	35	35	86,487	78,495	7,992	87	
Clear Lake Coop. C. C.	50	58	15	...	235	2,400	...	1	40	40	57,156	47,156	10,000	71	
Riverton C. Co. No. 1	106	128	50	6	147	3,748	...	...	40	40	116,564	84,930	31,634	68
" " No. 2.	13	24	44	...	224	1,300	...	...	...	...	31,872	24,691	7,181	67
Phoenix Fuel Co.	60	75	22	...	230	1,100	...	...	35	40	59,793	48,165	11,628	79
Barclay C. & M. Co.	60	67	23	...	160	1,890	...	...	35	40	55,944	44,340	11,604	75
Wabash Coal Co.	45	50	14	2	150	2,133	...	...	40	40	73,885	51,323	22,562	80
Sp'gfield & P. P. C. C.	12	16	6	2	137	228	...	...	40	40	6,636	6,276	350	90
Cantrall Coop. C. C.	75	81	20	...	260	3,425	...	...	35	40	100,249	96,251	3,998	82
Williamsville C. C. ...	40	60	14	...	120	1,272	...	...	35	40	33,124	19,876	13,248	70
N. C. Antie.	5	6	1	...	175	125	...	...	45	45	5,600	5,600	...	1 25
Totals.....	1,557	495	40	...	43919	3 16	...	...	...	...	1318,092	1032,928	284169	...
Averages.....	1,147	...	...	...	180	...	...	...	\$0 38	\$0 40	...	...	...	\$0 79

* Part of the year the coal at this mine was mined with machines.

Scott County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.														Average value of lump coal per ton at the mine.
	Miners employed.		All other employes.	No. of boys employed under ground.	No. of working days in the year.	No. of kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.				
	Average during year.	Highest during year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.		
W. H. Bates & Co.....	30	45	8	...	200	564	...	...	\$ 75	\$ 75	14,950	14,500	450	\$1 30
James Johnston.....	1	1	...	...	200	...	...	...	1 00	1 00	280	280	...	1 75
Jesse Cameron.....	1	2	...	...	150	...	...	...	1 00	1 00	250	250	...	1 50
Jones & Robertson....	2	3	...	...	100	...	...	...	1 00	1 00	350	350	...	1 25
James Morris.....	2	4	...	...	80	...	...	...	1 00	1 00	400	400	...	1 50
Chas. L. McGuire.....	4	8	...	...	180	1	...	...	1 00	1 00	1,300	1,300	...	1 25
M. Murphy.....	1	1	1	...	180	...	...	...	1 00	1 00	200	200	...	1 25
H. A. Meyer.....	1	3	...	...	20	...	...	...	1 00	1 00	100	100	...	1 75
Totals.....	67	9	...	...	563	...	...	...	...	...	17,730	17,350	450	...
Averages.....	42	...	...	...	138	...	...	...	\$ 79	\$ 79	...	...	...	...

Shelby County—Fourth District—1895.

Name of firm, company or person operating mine.	Town or postoffice nearest the mine.	CHARACTER OF PLANT.										Geological number of seam.	Estimated number of acres worked out during the year.
		Drift, slope or shaft.	Power—Steam, Horse or Hand.	Shipping or Local mine.	Hand or Machine mine.	Long-wall or Pillar-and-room.	Old, new or abandoned mine.	Paid weekly, semi-monthly or monthly.	Depth of coal below the surface—feet.	Thickness of seam—feet and inches.			
Moweaqua C. M. & Mfg. Co.	Moweaqua...	Sh.	St.	S.	H.	P.	R.	O.	S-M.	618	5.4	5	8.0
John Richardson	Shelbyville...	Sh.	St.	S.	H.	P.	R.	O.	W.	63	5.2	15	1.0
M. Brophy	"	"	"	"	"	"	"	"	"	72	5.2	15	1.9
B. F. Stretch	"	"	"	"	"	"	"	"	"	116	2.0	15	.4
McCray & Gray	"	"	"	"	"	"	"	N.	"	50	1.1	15	.3
F. M. Brown	"	D.	Hd.	"	"	"	"	N.	"	"	2.0	15	.1
S. L. Flanders	"	St.	Hr.	"	"	"	"	N.	W.	31	2.0	15	.1
Weesley Cox	Robinson C'k	D.	Hd.	"	"	"	"	N.	"	"	2.0	15	.1
John Stockdale	"	"	"	"	"	"	"	N.	"	"	2.0	15	.02
William & Hill	Mode	St.	Hr.	"	"	"	"	O.	W.	20	2.2	15	.7
Joseph Wade	Francher	"	"	"	"	"	"	O.	"	18	1.9	15	.6
S. T. Gollogher	"	D.	Hd.	"	"	"	"	N.	"	"	1.9	15	.02
J. F. McLaughlin	Neoga	"	"	"	"	"	"	O.	"	"	2.0	15	.3
J. H. Keneell	"	St.	"	"	"	"	"	"	"	"	2.0	15	.2
Totals (14 mines)													13.24
Averages													

Recapitulation of Coal Mines by Counties—

COUNTIES.	MINES.					MINERS.									
	Number of mines.	Shipping mines.	Mines in local trade.	New mines.	Estimated number of acres worked out during the year.	No. of miners and others employed.					Average number running days.	Number of kegs of powder used.	Casualties.		
						Average No. of miners.	Highest No. of miners.	No. of other employees.	No. boys under ground.				Killed.	Widows.	Injured.
Bond	1	1			10.05	61	90	23	1	173	2,007				
Calhoun	1	1			4.10	15	25	7	1	276	480				
Christian	7	7			102.90	753	1,010	243	61	172	5,116	7	4	13	64
Greene	14	3	14	2	4.56	33	75	95	7	131	10				2
Macon	14	3	5	1	39.00	290	334	95	7	245	1,987				
Macoupin	14	14	5	1	208.56	1,339	1,746	305	71	190	23,451	3	2	5	38
Madison	23	12	11	2	116.06	886	1,100	155	17	150	14,768	1			10
Montgomery	4	4			30.00	238	312	100	4	188	3,259				2
Sangamon	25	24			186.70	1,147	1,557	495	40	180	43,919	3	2	6	16
Scott	8	1	7	2	7.05	42	67	9		138	565				
Shelby	14	1	13	4	13.24	100	168	35	2	154	3,000	1			7
Effingham, Jasper, Jersey, Morgan, Pike and Richland..	15		15	4	6.00	35	40	6		100					
Totals	134	64	67	12	878.12	4,981	6,535	1,480	205		96,562	15	8	24	139
Averages															

Whole
Number
year, 12.
Whole

year, 12.
year, 8.

Shelby County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.													Average value of lump coal per ton at the mine.
	Miners employed.		All other employees.	No. of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Casualties.	Prices paid per ton for hand mining.		Tons of coal mined.				
	Average during year.	Highest during year.						Summer.	Winter.	Total.	Lump coal.	Other grades.		
Mow-aqua CM & M. Co.	60	90	25	2	200	3,000	7	\$0 47½	\$0 47½	52,506	35,353	17,153	\$0 90	
John Richardson	8	14	3	2	200	.....	1	1 37½	1 37½	2,200	2,200	.....	.....
M. Brophy	4	6	1	15½	.....	.....	.....	1 25	1 25	2,000	2,000	.....	.....
B. F. Stretch	12	24	1	100	.....	.....	.....	1 37½	1 37½	2,000	2,000	.....	.....
McCray & Gray	2	2	1	130	.....	.....	.....	1 37½	1 37½	550	550	.....	.....
F. M. Brown	1	3	.....	80	.....	1	1	1 37½	1 37½	200	200	.....	.....
S. L. Flanders	1	5	1	68	.....	.....	.....	1 37½	1 37½	240	240	.....	.....
Wesley Cox	1	4	.....	65	.....	.....	.....	1 00	1 00	200	200	.....	.....
John Stockdale	.....	1	.....	30	.....	.....	.....	1 00	1 00	40	40	.....	.....
Williams & Hill	4	8	1	160	.....	.....	.....	1 00	1 00	1,500	1,500	.....	.....
Joseph Wade	4	6	1	140	.....	.....	.....	1 00	1 00	1,300	1,300	.....	.....
S. T. Gollagher	.....	1	1	30	.....	.....	.....	1 00	1 00	40	40	.....	.....
J. P. McLaughlin	2	2	.....	150	.....	.....	.....	1 00	1 00	650	650	.....	.....
J. H. Kensell	1	2	.....	130	.....	.....	.....	.....	.....	400	400	.....	.....
Totals	.....	168	35	2	.....	3,000	17	.....	.....	63,736	46,573	17,153	.....
Averages	100	.....	.....	.....	154	.....	.....	\$0 651	\$0 651	.....	.....	.....	\$1 17

Fourth Inspection District, 1894.

COUNTIES.	PRICES AND PRODUCTS.						Average value of lump coal per ton at the mine.	Average value of other grades per ton.	Aggregate value of the total product.
	Average prices for hand-mining.			Tons of coal mined.					
	Summer.	Winter.	Average for the year.	Total tons.	Tons of lump.	Tons of other grades.			
Bond	\$0.40	\$0.42½	\$0.416	93,515	66,797	26,718	\$0.70	\$0.14	\$50,498 42
Calhoun .....	.80	.80	.80	9,200	9,200	.....	1.35	.....	12,420 00
Christian .....	.47	.47	.47	735,361	496,255	239,136	1.733	.351	447,859 42
Greene .....	.822	.822	.822	11,845	11,845	.....	1.27	.....	14,443 75
Macon .....	.48	.48	.48	231,000	190,000	41,000	1.14	.345	231,650 00
Macoupin .....	.521	.521	.521	1,948,59	1,406,372	542,220	.732	.342	1,181,294 78
Madison .....	.464	.474	.471	978,161	721,561	256,600	.667	.331	531,561 67
Montgomery .....	.4679	.4679	.4679	197,842	147,462	50,390	.748	.279	124,400 83
Sangamon .....	.377	.402	.393	1,318,092	1,033,923	284,169	.787	.306	901,151 26
Scott .....	.79	.79	.79	17,729	17,289	45	1.228	.50	21,452 50
Shelby .....	.651	.651	.651	63,726	49,573	17,153	1.16	.35	60,391 25
Effingham, Jasper, Jersey, Morgan, Pike and Ricland .....	.80	.80	.80	7,800	7,800	.....	1.70	.....	13,260 00
Totals .....	.....	.....	.....	5,612,764	4,154,538	1,458,226	.....	.....	.....
Averages ..	\$0.2639	\$0.3583	\$0.3935	.....	.....	.....	\$0.765	\$0.393	\$3,490,349 38

FIFTH INSPECTION DISTRICT--1895.

MR. GEORGE A. SCHILLING,

Secretary Bureau of Labor Statistics, Springfield, Illinois.

DEAR SIR:—Complying with Section Twelve of the General Mining Laws of the State, wherein the duties of the State Inspectors are defined, I herewith submit the Twelfth Annual Report of the Fifth Inspection District for the year ending July 1, 1895.

Respectfully,

HUGH J. HUGHES,

State Mine Inspector Fifth District.

The following summaries will give a concise history of the mining industry for the past year, for all counties and mines in the district:

Total number of mines	150
Total number of shipping mines	106
Total number of local mines	44
Highest number of men employed under ground	6,155
Number of men employed above ground	3,983
Total tonnage, all grades	4,489,581
Total tons lump coal produced	3,890,788
Total tons other grades	1,059,043
Number of accidents	116
Number of fatal accidents	16
Number of persons injured so as to lose one week or more of time	100
Number of tons of coal produced to each life lost	277,477
Number tons of coal produced to each non-fatal accident	44,398
Number of employes to each life lost	419
Number of employes to each non-fatal accident	73
Estimated number of acres worked out	687.75
Average value lump coal per ton	\$0.761
Average price paid per ton for hand mining	\$0.557
Number kegs of powder used	108,725

Fires—On the night of July 10, 1894, a serious fire occurred in the Odin Coal Company's mine at Odin. The regular night man who attended the mules at night fell asleep and his lamp set fire to the hay in the mule stable. Twelve mules were burned to death. The superintendent and men had a hard time to overcome the fire and prevent the loss of the mine. The fire commenced about 1 o'clock in the morning, and it was about 4 o'clock before a force of men could get to work. They worked from 4 a. m. until 8 p. m. before they could get the fire under control.

July 17, 1895. The White Smoke Coal Company's engine-house at Okawville, Washington county, burned down.

Fire at Oakhill mine, Belleville, St. Clair county. The engine-house was burned down in the early part of January, 1895. Some boys were playing around the boiler-room and are said to have caused the fire.

The Consolidated Coal Company's mine at Breese, Clinton county. The fire originated from a spark from the boiler-stack. The head frame, top works, elevator and bins were totally destroyed. The work of rebuilding was immediately begun on a more substantial and modern design. Operations were resumed on August 8, 1895.

Improvements.—Mine No. 2, Sparta, Illinois, has 102 bee-hive coke ovens, 12 feet in diameter, seven-foot crown. Storage-bin, washer and crusher buildings. Capacity of ovens daily, 200 tons. Capacity of washer and crusher, 500 tons daily. Head gear engine and boiler-house. Three new cylinder boilers 42 inches diameter, 22 feet long. Two 50,000-gallon tanks for water storage, Fairbank-Morse duplex pump, 6-inch suction, 5-inch discharge. Shaft widened from 6x12½ to 7½x13. Main entry double tracked for a distance of 1,100 feet.

The Sun Coal and Coke Company, at Sunfield, Perry county, has erected bins and a revolving screen. The bins have a storage capacity of 250 tons of small coal.

Abbey No. 4 mine, near Collinsville, has a large new reservoir.

At White Oak, near Marissa, a new air shaft is under way.

Accidents.—August 23, 1894. Joseph Peterman, a miner, and another young man were working close together, at Pittenger & Davis' mine, Centralia. The rule was to fire off blasts once a day, and that after the mine had quit hoisting coal. He had prepared two blasts to fire before going home; he went back to the cross cut between the two entries, and meeting J. C. Giel asked him to light the first blast, and Mr. Peterman attempted to light the second, but there was so much powder smoke from the first blast that in lighting the squib he either overreached the sulphur on the squib when lighting the same, or cut part off, making it short to go off quickly. The blast went off as he was in the act of lighting the squib. A piece of coal about thirty pounds in weight struck him on the right breast, knocking him 20 feet back the entry and killing him instantly. He owned a good dwelling property in the central part of the city and carried a life insurance policy of \$1,000 in the Catholic Knights of Illinois. His name had been on the company's pay-roll since September, 1890.

August 30, 1894. Leonard Kimmerlein, a loader, aged 35 years, was killed by a fall of slate, in the Glendale Coal Company's mine at Belleville. He was loading a box at the time, when a piece of slate five feet wide, ten feet long and six inches thick came down on him and injured him so that he died in a few hours after being taken home. He had been married but a short time. He was a German and resided at Belleville.

September 3, 1894. George Johnson, unmarried, aged 26, miner, working in the Sunfield mine at Sunfield, was killed by the explosion of his keg of powder. He went down the mine at 6:30 that morning straight to his working-place, where he was driving entry. When he reached the place he noticed some small scraps of paper lying around his powder-box, and he suspected that some one had stolen his powder. On examination he attempted to pull a cork out of the can, but found it attached to the trigger of a small pistol. The pistol was discharged by the pulling of the cork, and an explosion immediately followed. The pistol was *can after the explosion.* Johnson lived to tell of hearing the

report of the pistol in the can before the explosion occurred. He died at 3 p. m. the same day. He was the only support of his mother and sister. A fellow-miner, J. V. Clark, was suspected of having placed the pistol in the keg. was arrested and tried on the charge of murder, but was acquitted.

September 4, 1894. Richard Bolder, a miner, aged 30 years, was killed by a fall of top coal in his room. at the Big Muddy Coal and Iron Company's No. 5 mine, Murphysboro. The top coal in his room was two feet thick, five feet deep and thirty feet wide. He had cut one side of the top coal in the forenoon and was loading coal underneath the same, when it fell upon him, crushing his skull and killing him instantly. He was an Englishman, recently from Iowa, was married and left a widow and three children.

October 11, 1894. John Murphy, a loader, was injured by a fall of top coal and clod, at the Consolidated Coal Company's mine, White Oak, at Marissa, St. Clair county. It was his first day's work in the mine. The accident occurred at 10:30 a. m and he died an hour afterwards. His parents reside in Missouri, and his remains were taken home for burial.

George D. Kelly, night man, aged 23 years and unmarried, was fatally injured at the Sandoval mine on the night of December 22, 1894. It was part of his duty to take props into the works, and on this particular night he was taking props into the north main entry. There were a number of empty boxes standing on the north main entry track, and in order to clear the track he started to switch them on to the east entry track. He hitched his mule to five empty boxes and started into the east entry, but there being a slight grade in the track he could not stop the cars, and the front one was derailed and thrown across the track, crushing him between the car and a prop, injuring him internally. The accident occurred 280 feet from the shaft bottom, but he was able to walk back and come up by himself. He lived long enough to explain the nature of the accident to the top man, dying in about thirty minutes after receiving his injuries.

Grant Bibbs, colored, aged 26 years, was assistant cager at the Centralia Mining and Manufacturing Company's mine. On December 31, 1894, a car, which the regular cager was putting on the cage, went off the track. Bibbs was on the cage assisting in getting the car back on the track, when the cage started up, and he was thrown down and crushed between the cage and the side of the shaft, killing him instantly. He had been married about five months.

January 18, 1895. John McCarey, a miner, aged 26 years, working in the Gartside mine No. 4, at Murphysboro, was killed in his room by a fall of slate. He was married and leaves a widow and two children.

February 2, 1895. Peter Armbruster, a miner, aged 56, and working in the Jacob Krantz mine, at Belleville, was fatally injured by a fall of top coal in his room. He died in about two and a half hours after receiving his injuries. He left a widow and five grown children.

February 4, 1895. William Tadlock, a miner, aged 15 years, working in the Odin Coal Company's mine, at Odin, was sitting with his father eating dinner, at the room switch on the entry. He was burned by a blown-out shot fired in the next room. by which he was so injured that *he died fourteen days after.*

February 7, 1895. Henry Klingenhagen, a shooter in John Klosses' mine, at Belleville, was instantly killed by a falling clod in the room. He had sounded the clod, and said nothing to Henry Vogler, a loader, who had his back broken by the same falling clod. Henry Klingenhagen had been a mine manager three years at the Brandenburg mine and eight years at the John Klosses mine, where he was killed. He had not been mine manager since the law required mine managers to have certificates of competency. He was 37 years of age, married and left a widow and seven children.

February 26, 1895. Nathan Robinson, a laborer, aged 45, and working at the Valley and Gulf mine, at Sparta, was caught by an empty mine car, which ran off the cage, at the lower landing, and crushed him against a railroad car standing on the stock siding. He died on the way home. He was married and left a widow and one child.

March 15, 1895. Robert D. McCreight was killed at the Marissa mine, where he had been employed four or five years as a shooter. On the day named he went into a room to shoot coal, and the roof being generally a solid rock top, he did not examine it before starting to work. While his son was engaged in finishing the drilling of a hole, the father sat down to rest, and a large piece of rock fell on him, injuring him so that he died in about an hour. This would have been his last day in the mine, as it was his custom to work outside in the summer, and he had intended going outside the next day. He was 42 years of age, married and leaves a widow and two boys, aged 14 and 18 years respectively.

April 8, 1895. Dominick Laurenti, a miner, aged 28 years and single, was instantly killed by a falling clod, in the Browning mine, at DuQuoin.

May 3, 1895. Louis Petter, a roadman, working in the Trenton mine, was passing through a cross cut when two men were taking down some top coal preparatory to setting a door. He stopped to speak to the men, saying to one of them: "Look out, Hobe, your partner will pull this down on you." At that instant the coal fell, knocking him down and injuring him in such a manner as to cause paralysis of the entire body from the shoulders down. He died shortly after being taken home. He was 28 years of age and unmarried.

May 16, 1895. John Monolia, a miner, working in the St. Louis and Big Muddy Coal Company's mine, at Greenville, was instantly killed by a premature blast. Having two shots to fire at quitting time, he and his partner lit the two shots at once, and only one went off. Thinking the other one had missed, he went back to light it, and when he was within 25 feet of the shot it went off, killing him instantly. He was 35 years of age, married and leaves a widow and two children.

The following tables give a condensed history of the fatal and non-fatal accidents in the Fifth District for the past year:

Fatal Casualties—Fifth District, 1895.

Date.	Name	Age.	Occupation.	Residence.	Married.	Widow.	Children.	Single.	Dependent.	Cause of Accident.
1894										
Aug. 24	Joseph Peterman.....	38	Miner.....	Central City.	1	1	5	..	6	Struck by flying coal from premature explosion of shot....
" 30	Leonhard Kimmerlein..	35	Loader.....	Belleville...	1	1	..	..	1	Falling slate.....
Sept. 3	George Johnson.....	26	Miner.....	Sunfield.....	..	..	..	1	2	Explosion of can of powder, a pistol having been placed therein.....
" 4	Richard Bolter.....	40	".....	Murphysboro	1	1	3	..	4	Fall of coal.....
Oct. 11	John Murphy.....	25	Loader.....	White Oak.....	..	..	..	1	..	Falling coal.....
Dec. 22	George D. Kelly.....	23	Nightman...	Sandoval.....	..	..	..	1	..	Crushed between derailed pit car and prop.....
" 31	Grant Bibbs.....	26	Assist. cager	Centralia.....	1	1	..	..	1	Caught between cage and shaft.....
1895										
Jan. 18	John McCarey.....	26	Miner.....	Murphysboro	1	1	2	..	3	Falling slate.....
Feb. 2	Peter Armbruster.....	56	".....	Belleville...	1	1	5	..	2	Falling of top coal.....
" 7	Henry Kittinghagen.....	37	Blaster.....	".....	1	1	7	..	8	Falling clod.....
" 14	William Tadlock.....	15	Miner.....	Odin.....	..	..	..	1	..	Burnt by shot blowing out in adjoining room
" 26	Nathan Robinson.....	45	Laborer.....	Sparta.....	1	1	1	..	2	Crushed by pit car.....
Mar. 2	Robert D. McCreight...	42	Blaster.....	Marissa.....	1	1	2	..	3	Falling rock.....
April 8	Domonic Laurenti.....	28	Miner.....	DuQuoin.....	..	..	..	1	..	Falling clod.....
May 3	Louis Peter.....	28	Roadman.....	Trenton.....	..	..	..	1	..	Falling coal.....
" 16	John Monolla.....	36	Miner.....	Greenville...	1	1	2	..	3	Explosion.....
	Totals.....				10	10	22	6	35	

Recapitulation of Fatal Accidents—Fifth District—1895.

Residence.	No.	Occupation.	No.	Nature of Casualty	No.	Colliery.	No.
Belleville.....	3	Assistant cager	1	Caught between cage and shaft...	1	Big Muddy.....	1
Central City.....	1	Blaster.....	2	Explosion of can of powder.....	1	Browning.....	1
Centralia.....	1	Laborer.....	1	Falling coal.....	4	Centralia M. & M. Co..	1
DuQuoin.....	1	Loader.....	2	Falling clod.....	1	Gardner No. 4.....	1
Trenton.....	1	Miner.....	6	Falling clod.....	2	Glendale.....	1
Greenville.....	1	Nightman.....	1	Falling rock.....	1	Jacob Krantz.....	1
Marissa.....	1	Roadman.....	1	Falling slate.....	2	John Kloes.....	1
Murphysboro.....	2			Pit cars.....	2	Marissa.....	1
Odin.....	1			Premature explosion of blast.....	2	Odin.....	1
Sandoval.....	1			Shot blown through pillar.....	1	Pittenger & Davis.....	1
Sparta.....	1					Sandoval.....	1
Sunfield.....	1					St. L. & Big Muddy...	1
White Oak.....	1					Sunfield.....	1
						Trenton.....	1
						Valley & Gulf.....	1
						White Oak.....	1
Totals.....	16		16		16		16

Non-Fatal Casualties—Fifth District, 1895—Concluded.

Date.	Name.	Age.	Residence.	Married.	Children.	Single.	Dependents.	Character of Injury and Cause of Accident.	Time lost—days.
1895									
Feb. 5	John W. Davis.....	15	Lenz Station.	..	..	1	..	Arm broken between two cars.....	50
" 7	Henry Vogler.....	30	Belleville.....	1	1	..	..	Back broken, fall of clod.....	*
" 8	C. Iseringhaus.....	14	Lebanon.....	..	..	1	..	Arm broken between cars.....	36
" 9	Thomas Barnes.....	40	Centerville.....	1	5	..	..	Leg injured, fall of coal.....	11
" 11	Conrad Neschwitz.....	55	Belleville.....	1	3	..	..	Leg broken, fall of top coal.....	100
" 14	L. A. Wingarner.....	23	Odin.....	1	1	..	..	Burned by heat, blown out shot..	118
" 14	Samuel Smith.....	27	".....	..	..	1	..	".....	118
" 14	J. M. Tadlock.....	39	".....	1	5	..	6	".....	118
" 14	Wm. Tadlock.....	15	".....	..	..	1	..	".....	118
" 14	John Christie.....	40	".....	..	..	1	..	".....	118
" 14	Geo. Bain.....	23	".....	..	..	1	..	".....	100
Mar. 1	Dom. Cigiliana.....	24	St. Johns.....	..	..	1	..	Arm broken, head slightly injured	36
" 4	Charles Colombo.....	35	Carterville.....	..	..	1	..	Injured by fall of slate.....	13
" 4	Ch. Conklin.....	17	Lebanon.....	..	..	1	..	Hip bruised between car and rib..	12
" 4	H. Miller.....	25	".....	1	2	..	3	Injured by falling coal.....	10
April 3	Charles Myers.....	35	Centralla.....	..	..	1	..	Injured by fall of top coal.....	20
" 3	Samuel Dunbar.....	31	Sparta.....	..	..	1	..	Arm broken between cars.....	110
" 4	Wm. Laughlin.....	39	DuQuoin.....	1	3	..	4	End of finger cut off, hitching mule	39
" 6	Roy Aldridge.....	30	Carterville.....	..	..	1	..	Hand caught, finger broken, coupling car.....	24
" 16	George Armstrong.....	31	DuQuoin.....	..	..	1	..	Arm broken, helping car on track.	63
" 25	Geo. Kell.....	19	St. Johns.....	..	..	1	..	Injured by falling top coal.....	10
" 25	Jas. Zanin.....	35	".....	..	..	1	..	".....	13
" 26	James Kimberlein.....	18	Centralla.....	..	..	1	..	Hand injured coupling cars.....	12
" 29	Alfred Mantel.....	24	Reeds Stati'n	1	2	..	3	Back bone broken, thrown under pit-cars.....	*
May 2	Frank Ranchett.....	35	St. Johns.....	..	..	1	..	Hurt by falling slate.....	100
" 2	Ralph Collins.....	62	Murphysboro	1	3	..	4	Head cut, ankle broken, falling coal	63
" 3	Frank Bonner.....	22	Belleville.....	..	..	1	..	Hip dislocated by fall of clod.....	100
" 3	Henry Querin.....	47	Murphysboro	1	2	..	3	Side, hand and arm bruised, falling coal.....	15
" 4	Peter Jern.....	22	".....	..	..	1	..	Leg broken.....	*
" 4	Wm. Gray.....	40	Marissa.....	1	1	..	2	Injured by falling slate.....	25
" 10	Charles McNamee.....	34	Centralla.....	..	..	1	..	Finger mashed coupling pit cars..	10
" 30	Adam Bebel.....	32	Sparta.....	..	..	1	..	Leg broken by kick from mule.....	90
June 8	Felix East.....	39	Centerville.....	1	1	..	2	Injured by premature blast.....	*
" 8	Robert Green.....	32	".....	1	1	..	2	".....	*
" 11	John Buhne.....	17	Centralla.....	..	..	1	..	Arm broken.....	*
" 13	Clarence Raush.....	24	DuQuoin.....	..	..	1	..	Arm broken, ran into loaded cars..	*
" 18	Frank Canipo.....	35	DuQuoin.....	..	..	1	..	Hurt by falling slate.....	12
" 19	Geo. Gelwix.....	52	Belleville.....	1	6	..	7	Body bruised by premature blast..	*
" 27	John Carnes.....	24	DuQuoin.....	1	3	..	4	Hurt by mule kick.....	*
	Total, 100 injured..			45	130	53	161		4879

* Seriously injured; not working yet.

† Since died.

Recapitulation Non-fatal Casualties—Fifth District—1895.

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Belleville.....	10	Cager.....	8	Ankle joint injured	1	Big M. C. & C. Co.....	1
Breese.....	1	Car filler.....	1	Arm broken.....	2	Big Muddy C. & I. Co.	2
Carterville.....	8	Chute worker..	1	Back and br'st hurt	1	Brosius.....	1
Caseyville.....	1	Driller.....	1	Blown out shot....	11	Carterville.....	1
Centralia.....	7	Driver.....	19	Cage.....	1	Centralia M. & M. Co..	3
Collinsville.....	1	Helper.....	1	Compressor.....	1	Consolidated C. Co...	9
Coulterville.....	3	Laborer.....	1	Coupling cars.....	1	Coulterville.....	3
Desoto.....	1	Loader.....	7	Drill falling down	1	D. C. Barber.....	1
DuQuoin.....	11	Machine helper	1	shaft.....	1	DuQuoin U. C. Co....	8
Kinmundy.....	1	Machine sho'lr.	1	Falling coal.....	17	U. Zilsdorf.....	1
Lebanon.....	4	Miner.....	50	Falling rock.....	1	Faust, Turner & Burk.	1
Lenz Station.....	1	Night engineer	1	Falling slate.....	14	Gartalde C. Co.....	3
Marissa.....	2	Sinker.....	1	Fall of clod.....	2	Glendale C. Co.....	3
Muddy Valley.....	7	Shooter.....	2	Fall of coal off face	1	Greenwood C. Co.....	1
Murphysboro.....	9	Timberman.....	5	Fall of coal and	1	Ill. Cen. C. & S. Co..	6
Mt. Vernon.....	5	Top laborer.....	2	slat.....	1	John Kloess.....	1
Odin.....	6	Top mon.....	1	Fall of loose coal.	1	Jupiter.....	1
Pinckneyville.....	1	Trapper.....	2	Finger broken.....	1	Lebanon C. & M. A....	4
Reeb's Station...	1			Flying coal from		Marissa.....	1
Ridge Prairie...	2			shot.....	1	Mt. Vernon.....	5
Sato.....	1			Gas.....	1	Muddy Valley.....	7
Sparta.....	4			Leg broken.....	5	National.....	1
St. John's.....	6			Mule.....	4	Oakland C. Co.....	2
Tamaroa.....	1			Pit cars.....	17	Odin C. C.....	6
Trenton.....	5			Powder.....	3	Pittinger & Davis...	4
Wilderman.....	1			Premature blast...	4	Reinecke No. 2.....	2
				Ribs broken.....	1	Richland C. Co.....	1
				Railroad cars...	3	Ruby.....	1
				Shot (blasting)...	1	Sato Mfg Co.....	1
				Shot (blast) through		Skellett C. Co.....	1
				pillar.....	2	St. L. & B. M. C. Co..	11
				Trucks.....	1	Superior C. M. Co....	1
						Thomas Johnson.....	1
						Valley & Gulf.....	4
						Wilderman.....	1
Totals, 26 Places	100	12 Occupations	100	28 Causes.....	101	35 Collieries.....	100

The county tables follow in alphabetical order together with a recapitulation for the district.

Respectfully,

HUGH J. HUGHES,

State Inspector of Mines Fifth District, Litchfield, Ill.

STATISTICS OF LABOR.

Clinton County—Fifth District—1895.

[illegible]

Gallatin County—Fifth District—1895.

[illegible]

Clinton County—Fifth District—1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYEES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.														Average value of lump coal per ton at the mine.
	Miners employed.		All other employes	No. of boys employed under ground.	No. of working days in the year.	No. of kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.				
	Average during year.	Highest during year.					Killed.	Injured.	summer.	Winter.	Total.	Lump coal.	Other grades.		
Consolidated Coal Co.	115	115	35	5	212	873	1	5	.....	.....	85,643	67,841	17,802	\$1 00
“ “	85	85	15	6	190	2,325	..	1	\$0 23	\$0 23	102,243	76,411	25,832	60	
Breese Coal Co.	75	125	26	6	198	3,208	..	1	35	35	96,601	72,403	24,118	75	
Totals .....	.....	325	76	11	....	5,405	1	6	.....	.....	284,487	216,655	67,832	.....
Averages	275	.....	.....	.....	300	.....	..	..	\$0 28	\$0 28	.....	.....	.....	\$0 77

Gallatin County—Fifth District—1894—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.													Average value of lump coal per ton at the mine.
	Miners employed.		All other employes.	No. of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.			
	Average during the year.	Highest during the year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.	
Equality Coal Co.....	30	50	12	...	305	400	...	...	\$ 50	\$ 50	16,500	8,250	8,250	\$1 00
Leon Vogt.....	12	5	12	...	300	35	...	...	62½	62½	1,200	960	240	1 00
Andrew Reid.....	...	20	...	...	100	7	...	...	62	62	250	250	...	1 00
Lloyd & Jerls.....	9	10	3	...	130	35	...	...	62½	62½	1,180	930	250	1 00
Wm. L. Haws.....	12	5	3	...	40	35	...	...	55	55	1,300	1,200	...	1 00
Totals.....	...	72	30	...	...	513	...	...	...	...	20,330	11,590	8,740	....
Averages.....	44	...	...	...	135	...	...	...	\$ 52	\$ 52	...	...	...	\$1 00

Hamilton County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.														Average value of lump coal per ton at the mine.
	Miners employed.		All other employés.	No of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.				
	Average during year.	Highest during year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.		
J. C. Harper.....	6	6	....	....	40	....	..	..	62½	62½	520	530	.....	\$1 25
I. R. Yates & Co.....	4	4	....	....	80	....	..	..	62½	62½	4,125	4,125	.....	1 50
Totals.....	....	10	....	....	120	....	..	..	....	....	4,645	4,645	.....	....
Averages.....	10	....	....	....	60	....	..	..	62½	62½	....	....	....	\$1 47

Jackson County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.													Average value of lump coal per ton at the mine.	
	Miners employed.		All other employes.	No. of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.				
	Average during the year.	Highest during the year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.		
Big M. C. & I. C. No. 4	170	170	15	6	149	4	80,238	60,250	19,988	\$ 1 10
" " " No. 5	191	191	30	7	178	2	142,801	94,973	47,829	1 10
" Harrison.....	87	87	13	5	73	29,091	20,130	8,971	1 10
Gartside C. Co. No. 1	4	4	18	.....	312	300	..	..	45	45	30,360	28,260	2,100	1 11
" " No. 3	6	6	36	1	175	500	..	..	45	45	39,100	27,400	11,700	1 12
" " No. 4	10	10	26	1	220	700	1	2	42	45	55,900	39,000	16,900	1 12	
D. P. Willis C. Co.....	15	24	3	.....	312	100	..	..	47	47	20,689	17,602	3,087	1 00
E. E. Poole C. Co.....	14	14	2	1	190	35	..	..	90	90	2,449	1,949	500	1 50
Big M'dy C. & C. Co.	95	95	10	3	209	2,107	..	1	28	28	62,862	48,573	14,289	70	
Mud'y V. M. & M. Co	200	250	65	4	173	5,300	..	7	184,000	113,242	71,758	70
Spring Ridge C. M.....
William Campbell....	2	2	1	.....	290	25	..	..	40	40	400	400	.....	1 25
M'eboro B. M. C. Co.	45	45	25	2	200	80	..	..	32	32	19,870	19,127	743	70
Sato Coal & M. Co.....	28	32	5	5	175	40	..	..	40	40	48,000	48,000	.....	90
Schaffer, Jones & Co.	3	3	3	.....	186	800	..	1	40	40	23,901	20,346	3,555	1 10
Totals.....	870	933	242	35	10607	2	18	739,661	538,241	201,420
Averages.....	203	52	\$ 95

Jefferson County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.												Average value of lump coal at the mine.	
	Miners employed.		All other employes.	No. of boys employed underground.	Running days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.			
	Average during the year.	Highest during the year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.		Other grades.
G. W. Shelton.....	3	6	3	....	60	....	..	....	75	80	80	....	\$1 80	
Mt. Vernon M. Co....	25	25	7	....	250	695	..	5	40	40	27,800	27,000	800	1 00
Totals.....	28	31	10	....	....	655	..	5	40	40	27,880	27,080	800	1 003
Averages.....	....	....	....	....	155	....	..	..	....	....	....	....	....	....

Marion County, 1895—Concluded.

Name of firm, com- pany or person op- erating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.													Average value of lump coal per ton at the mine.
	Miners employed.		All other employé's.	No. of boys employed under ground.	No. of working days in the year.....	Kegs of powder used during year.	Cas- ualties.		Prices paid per ton for hand mining.		Tons of coal mined.			
	Average dur- ing year.	Highest dur- ing year.					Killed.	Injured.	Sum- mer.	Win- ter.	Total.	Lump coal.	Other grades.	
Centralia M. & M. Co.	128	140	40	...	227	1,652	1	3	.....	.....	75,803	62,107	13,696	\$ 824
Pitt'r & D. M. & M. Co	14	14	162	7	312	5,025	1	4	.....	.....	155,808	85,694	70,114	82
Odin Coal Co.....	139	139	16	10	250	1,600	1	6	*30	*30	99,328	90,126	9,202	744
Sandoval C. & M. Co.	110	110	25	2	250	7,100	1	..	.....	.....	175,625	133,406	42,219	75
Superior C. & M. Co.	20	25	10	....	250	....	..	1	40	40	26,000	20,000	6,000	1 10
Salem Coal Co.....	10	25	4	....	175	25	..	..	50	50	6,336	4,536	1,800	1 00
Totals.....	.....	453	257	19	....	15402	4	14	.....	.....	538,900	395,869	143031	.....
Averages.....	431	.....	.....	.....	244	.....	.....	.....	32½	32½	.....	.....	.....	\$ .798

*Gross weight.

Perry County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.													Average value of lump coal per ton at the mine.		
	Miners employed.		All other employes.	No. of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.					
	Average during year.	Highest during year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.			
DuQuoin Un'n C. Co.																
Browning.....	155	155	10	6	200	3,500	1	3	.....	.....	100,000	60,000	40,000	\$0 80
Enterprise.....	77	78	8	4	200	3,100	..	3	\$0 40	\$0 50	75,000	45,000	30,000	85		
Egyptian.....	75	75	7	2	250	2,500	..	2	.....	.....	50,000	30,000	20,000	75
Excelsior.....	30	30	5	....	*60	300	..	..	40	50	10,000	6,000	4,000	75
Jupiter Mining Co...	130	160	20	4	112	1,780	..	1	40	50	61,738	45,389	16,349	90		
Perry County C. Co...	49	49	9	....	300	781	..	..	*30	*30	26,313	22,186	4,127	74
Horn Colliery Co....	125	160	5	....	118	1,500	..	5	36	36	69,384	52,232	17,052	75	
Ill. Cent. C. & S. Co.	90	90	48	12	200	500	..	..	40	50	51,185	35,831	12,354	85
D. C. Barber & Son...	18	18	3	....	144	400	..	1	30	30	12,000	10,000	2,000	75	
T. L. Stockton.....	18	18	5	....	100	415	..	..	30	35	10,000	10,000	.....	75
G. W. Brown.....	25	40	5	....	100	650	..	..	*20	*20	26,488	11,000	15,488	62
Wood Brothers.....	2	3	2	....	100	48	..	..	40	50	230	230	.....	1 12
Brown & Barwell....	25	25	4	....	200	753	..	..	25	25	16,582	11,000	5,582	60
Sun Coal & Coke Co.	60	60	15	....	212	800	1	..	36	36	22,852	15,234	7,618	75	
Greenwood Coal Co...	50	75	6	1	80	700	..	1	37	37	28,400	17,700	10,700	90		
Superior C. & M. Co.	24	45	17	2	150	365	..	..	30	30	11,706	6,828	4,878	70
Pope Mining Co.....	35	35	6	....	179	360	..	..	46	46	10,565	6,769	3,796	93
J. N. Howell.....	3	4	1	....	100	12	..	..	1 00	1 00	600	600	.....	1 00
Thomas Johnson.....	5	5	1	....	70	4	..	1	80	.....	200	200	.....	1 80
Jones & Howell.....	3	3	1	....	150	5	..	..	50	50	1,225	985	240	1 25
Faust, Turner & Burk	2	2	1	....	251	95	..	1	.....	46	2,506	2,506	.....	1 25
S. S. Ritchey.....	2	2	1	....	200	12	..	..	.....	40	570	570	.....	1 00
Totals.....	.....	1,132	180	31	.....	18430	2 18	.....	.....	.....	587,444	393,260	194184	.....	
Averages.....	1,003	.....	.....	.....	193	.....	.....	33 2-10	38 2-10	.....	.....	.....	.....	\$0 80

*Gross weight.

Randolph County, 1895 - Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.														Average value of lump coal per ton at mine.
	Miners employed.		All other employes.	No. of boys employed under ground.	No. of working days in the year.	No. of kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.				
	Average during year.	Highest during year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.		
Valley & Gulf Coal Co	45	64	17	....	194	1,830	1	4	\$0.37½	\$0.37½	42,408	34,455	7,953	\$0.60
D. B. Boyd "	20	30	4	1	205	988	..	..	25	25	24,214	19,371	4,843	62
Geo. F. Gerlach "	3	5	1	....	147	....	..	..	....	....	1,291	1,291	....	1.00
Rosebrough No. 2, Sparta	30	41	20	1	100	700	..	..	25	25	19,420	16,594	2,826	50
Rosebrough No. 3, Sparta	10	12	7	....	100	300	..	..	25	25	6,151	5,332	319	50
Conit'rville C. & M. Co	38	50	6	1	270	1,180	..	3	17	17	32,758	32,278	480	1.00	
Tilden Coal Co.	14	14	2	....	159	300	..	..	37½	37½	6,217	4,663	1,554	1.00
Barnard & Goalby	10	14	2	....	150	190	..	..	33¾	33¾	5,988	5,088	900	65
Wm. Goalby & Son No. 1	12	15	2	....	92	200	..	..	33¾	43¾	6,080	5,080	1,000	65
Wm. Goalby & Son No. 2	10	15	2	....	92	149	..	..	40	50	4,956	4,100	856	75
Little M'dy C. & M. Co	24	30	6	....	168	463	..	..	35	35	14,447	12,707	1,740	55
The Willis C. & M. Co.	20	35	3	1	120	400	..	..	38	38	5,200	3,900	1,300	62
R. N. Rosebrough Coal & Coke Co.	31	43	16	2	300	600	..	..	40	40	22,931	13,798	9,133	67
George Stanway C. Co	3	3	1	....	196	81	..	..	35	35	2,296	2,200	96	80
Enterprise Coal Co.	5	5	1	....	150	50	..	..	37½	50	124	124	....	87
Totals	.....	376	90	6	....	7,421	1	7	.....	.....	194,481	161,481	33,000	.....
Averages	275	.....	.....	.....	166½	.....	.....	.....	\$0.33	\$0.33	.....	.....	.....	\$0.69

Saline County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.														Average value of lump coal per ton at the mine.
	Miners employed.		All other employes.	No. of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.				
	Average during the year.	Highest during the year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.		
Davenport, Allsop & Co., Clifton mine...	27	33	3	...	218	320	...	...	\$0 62½	\$0 62½	13,880	9,254	4,626	\$1 00
Davenport, Allsop & Co., Ledford mine...	17	17	4	...	60	120	...	...	55	55	4,392	3,028	1,369	1 00
Davenport, Allsop & Co., Newcastle mine	52	55	5	2	312	...	...	...	62½	62½	22,400	14,967	7,433	1 00
H. P. Sittig.....	4	4	...	...	200	15	...	...	60	60	4,000	3,000	1,000	75
Heenan Ledford & Co	4	4	1	...	25	2	...	...	50	50	150	99	51	87
John Hawkins.....	4	6	...	...	90	...	...	...	65	65	380	285	95	1 12
Totals.....	...	119	13	2	...	457	...	...	...	...	45,202	30,638	14,574	...
Averages .. .	10	...	...	...	181	...	...	...	\$0 44	\$0 44	...	...	...	\$0 99

Washington County, 1895—Concluded.

Name of firm, company or person operating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.													Average value of lump coal per ton at the mine.
	Miners employed.		All other employes.	No. of boys employed under ground.	Running days in the year.	Kegs of powder used during year.	Casualties.		Prices paid per ton for hand mining.		Tons of coal mined.			
	Average during the year.	Highest during the year.					Killed.	Injured.	Summer.	Winter.	Total.	Lump coal.	Other grades.	
Adam Kuhn.....	30	35	12	...	165	650	...	...	\$0 33	\$0 33	27,000	21,000	6,000	\$0 70
H. Murray, N'ville m.	50	50	7	1	211	670	...	...	46	46	27,500	27,500	.....	86
White Smoke mine...	5	5	2	...	200	75	...	...	62½	62½	1,730	1,730	.....	1 25
Totals.....	...	90	21	21	...	1,395	...	...	...	...	56,230	50,230	6,000	.....
Averages.....	85	...	...	...	192	...	...	...	\$0 41	\$0 41	...	...	...	\$0.80

Williamson County, 1895—Concluded.

Name of firm, com- pany or person op- erating mine.	EMPLOYES, TIME, WAGES, POWDER, ACCIDENTS AND PRODUCT.														Average value of lump coal per ton at the mine.
	Miners employed.		All other employes.	No. of boys employed under ground.	Running days in the year.	Kegs of powder used during the year.	Casual- ties.		Prices paid per ton for hand mining.		Tonf of coal mined.				
	Average dur- ing the year.	Highest dur- ing the year.					Killed.	Injured.	Sum- mer.	Win- ter.	Tons.	Lump coal.	Other grades.		
Crystal Plate Glass Co	70	70	10	5	96	1,214	...	...	\$0 31	\$0 31	45,876	36,807	9,069	\$0 90
St. L. & B. M. Coal Co	248	248	48	12	245	8,135	1	7	23	23	351,535	147,955	103,580	88	
Carterville Coal Co.	182	208	35	...	170	3,000	...	1	23	23	151,535	87,955	63,580	1 00	
John A. Young.....	4	4	1	...	300	50	...	...	50	50	2,000	2,000	.....	1 00
Belce Bros.....	3	4	3	...	170	51	...	...	45	45	1,725	1,500	225	1 00
T. J. Lansom.....	4	5	2	...	160	21	...	...	50	50	1,725	1,725	.....	1 00
Smith & Reid.....	27	27	10	...	62	67	...	...	30	30	1,639	915	724	70
S. A. Campbell.....	10	10	8	...	50	90	...	...	.....	.....	3,500	2,500	1,000	75
E. E. Ensminger.....	4	.....	.....	...	60	9	...	...	.....	.....	240	200	40	1 00
Geo. F. Motsinger....	3	.....	.....	...	50	32	...	...	.....	.....	1,200	1,200	.....	1 00
Grossley & Huddston	2	4	3	...	200	.....	...	...	50	50	.....	.....	.....	.....
Totals.....	.....	580	110	17	...	12675	1	8	.....	.....	461,475	283,257	178218	.....
Averages.....	557	.....	.....	.....	133	.....	.....	.....	\$0 24	\$0 24	.....	.....	.....	\$ 946

Recapitulation of Coal Mines by Counties—

COUNTIES.	MINES.						MINERS.									
	Number of mines.	Shipping mines.	Mines in local trade.	New mines.	Abandoned mines.	Estimated number of acres worked on during the year.	No. of miners and others employes.				Average number of running days.	Number of kegs of powder used.	Casualties.			
							Average No. of miners.	Highest No. of miners.	No. of other employes.	No. boys under ground.			Killed.	Widows.	Children.	Injured.
Clinton	3	3	..	..	..	43.6	275	325	76	11	220	5,405	1	..	..	6
Gallatin	5	1	4	..	..	4.25	44	72	20	..	135	512	..	..	..	..
Hamilton	2	..	2	1	..	..	19	10	..	..	60	..	..	..	..	..
Jefferson	2	1	1	1	..	5	28	31	10	..	155	605	..	..	..	5
Jackson	14	8	6	..	1	86.53	876	933	242	35	203	10,607	2	2	5	18
Marion	6	6	..	..	..	82.5	421	453	257	19	244	15,462	4	2	5	14
Perry	22	16	6	5	..	92.22	1,008	1,132	180	31	193	18,430	2	..	..	18
Randolph	15	12	3	1	1	31.25	275	378	90	6	166½	7,421	1	1	1	7
Saline	6	3	3	2	1	8.75	108	119	13	2	181	457	..	..	..	..
St. Clair	61	48	13	4	3	232.5	1,707	1,820	230	49	202½	37,700	5	4	14	23
Washington	3	3	..	..	..	9	85	90	21	1	192	1,395	..	..	..	..
Williamson	11	5	6	..	1	59.25	557	580	110	17	133	12,675	1	1	2	8
Totals	150	106	44	16	8	657.75	5,383	5,941	1,349	171	.....	110,699	16	10	27	99
Averages .....	..	..	..	..	..	..	..	..	..	..	.....	..	..	..	..	..

Whole number of openings reported in 1894, 142.

Number of new mines or places opened during the year, 16.

Number of mines exhausted or abandoned during the year, 8.

Whole number of openings reported for 1895, 150.

Fifth Inspection District, 1895.

COUNTIES.	PRICES AND PRODUCTS.						Average value of lump coal per ton at the mine.	Average value of other grades per ton.	Aggregate value of the total product.
	Average prices for hand-mining.			Tons of coal mined.					
	Summer.	Winter.	Average for the year.	Total tons.	Tons of lump.	Tons of other grades.			
Clinton	\$0 28	\$0 28	\$0 28	284,487	216,655	67,832	\$0 77	\$0 37	\$193,109 75
Gallatin	52	52	52	30,380	11,590	8,740	1 00	50	15,960 00
Hamilton	625	625	625	4,645	4,645	.....	1 47	.....	6,837 50
Jefferson	40	40	40	27,880	27,080	800	1 00	75	27,744 00
Jackson	3669	3669	3669	739,661	538,341	201,420	95	42	597,518 55
Marion	4118	4118	4118	538,900	395,569	143,031	798	29	357,792 81
Perry	38	438	419	587,444	393,260	194,184	80	30	373,819 13
Randolph	30	31	31	194,451	161,481	33,000	696	43	126,579 50
Saline	61	61	61	45,202	30,628	14,574	99	53	37,945 48
St. Clair	305	31	31	1,479,106	1,267,862	211,244	607	33	839,151 24
Washington	41	41	41	56,230	50,220	6,000	80	60	44,100 00
Williamson	237	237	237	461,475	283,257	178,218	946	475	346,711 20
Totals .....	.....	.....	.....	4,439,831	3,380,788	1,059,443	\$0 76	\$0 37	\$2,967,269 15
Averages ...	\$0 3258	\$0 3428	\$0 3371	.....	.....	.....	.....	.....	.....

APPENDIX.

**ROSTER OF MINE MANAGERS, FIRE BOSSES AND HOISTING
ENGINEERS HOLDING CERTIFICATES FROM THE STATE
BOARD OF EXAMINERS OF ILLINOIS.**

NOTE:—It is desired to make this roster as complete and accurate as possible. Every care has been exercised to this end, but it is quite probable that there may have been some changes of address since it was compiled. Any one noticing any error will confer a favor on this Bureau by notifying the Secretary at the earliest possible moment, thus enabling corrections to be made in next report.

Address: **GEORGE A. SCHILLING, Secretary.**

Springfield,
Illinois.

MINE MANAGERS HOLDING CERTIFICATES OF COMPETENCY.

Names.	Postoffice.	Names.	Postoffice.
Ainsworth, Samuel	Taylorville	Bulmer, Benj.	Centralia
Aitken, James	Streator	Burkhardt, J. B.	Mt. Olive
Anderson, W.	Virden	Back, Thomas	Cable
Apblett, W. R.	Springfield	Bailey, William	Athens
Armstrong, T. J.	Spring Valley	Banghart, Henry	Lincoln
Atkinson, W.	Braceville	Beatty, James H.	Mascoutah
Ax, John	Edwardsville	Birtin, Henry	Pana
Anderson, James	Ladd	Brockhouse, Samuel	Caseyville
Archer, John	Danville	Browning, J. M.	DuQuoin
Archibald, David	Freeburg	Brueggeman, George	Belleville
Axford, Thomas	Petersburg	Bell, William	Streator
Angell, Charles	Belleville	Brown, John	Glen Carbon
Angel, Hiram	Glenn	Baxter, William	Ladd
		Boston, James	DuQuoin
		Bennett, John	Mt. Vernon
		Boston, G. W.	Marion
		Blair, Gus	Percy
Bailey, Joseph	Du Quoin		
Baker, Gustav	Streator	Canfield, R. A.	Madisonville, Ky.
Barlow, Henry	Johnson City	Cherry, John T.	Seatonville
Barnett, Oliver	Bryant	Chreighton, Robert	Braidwood
Barwell, John	Cutler	Conrad, William	Freeburg
Beadle, Elieha	Kewanee	Craine, B. S.	Murphysboro
Beattie, John	Danville	Crankshaw, Thomas	Grape Creek
Belger, John	Nilwood	Carter, Charles	Birkner
Bell, Richard	Gillespie	Carter, George	
Bennett, James	Carbondale	Cheekin, David	Reed City
Berkstresser, W. A.	Coulterville	Chivers, Joseph	Spring Valley
Betts, Joseph E.	Belleville	Church, Henry M.	Marion
Betz, Charles	DuQuoin	Clark, Martin	Decatur
Beveridge, David	Sorento	Clark, Quintin	Braidwood
Biggins, James	"	Clark, Thomas	Decatur
Birtley, W. P.	Mt. Olive	Coar, Firman	Worden
Blake, Alfred	Hanna City	Cooper, Charles	Nilwood
Bottomley, Edward	Oglesby	Craine, John E.	Murphysboro
Bottomley, John	Braidwood	Cruckshanks, John	Farmington
Bowie, James	Greenview	Cruckshanks, Wm.	Middle Grove
Bracken, James A.	Belleville	Cumming, A. B.	Sparsland
Brandeburger, F.	O'Fallon		
Brigham, Wm.	Carbon Hill		
Brown, W. J.			

Certificates of Competency.—Continued.

Names.	Postoffice.	Names.	Postoffice.
Cumming, James P.	Sparland	Garrity, John	Braidwood
Cumming, John P.	Braceville	Gill, Philip	Gilchrist
Cumming, T. S.	Belleville	Graback, R. H.	Staunton
Cunningham, C.	Springfield	Graves, Peter	Collinsville
Cunningham, T.	Carlinville	Gaul, Henry J.	Belleville
Carroll, John	O'Fallon	Giles, William	Gillespie
Christie, Dave	Murphysboro	Glass, William H.	Edwardsville
Cummings, D. H.	Gardner	Goalby, John F.	Belleville
Condie, Malcolm	Spring Valley	Golden, George	Springfield
Clelland, Robt.	Braidwood	Goodall, William D.	Assumption
Cairns, John	Moweaqua	Goodall, George	Dunfermline
Conity, Patrick	DuQuoin	Graham, John W.	Springfield
Cook, Robinson	Auburn	Gray, Thomas R.	"
		Green, Robert	Edinburgh
		Greenwood, J. R.	Belleville
Davison, M.	DuQuoin	Groom, John	Carbon Hill
Davis, Caleb	Collinsville	Guiney, James T.	Belleville
Davis, J. H.	Cuba	Granlick, August	"
Devlin, Henry	Toloca	Granlick, Jul. M.	Gilchrist
Dodo, William	Pottstown	Gilchrist, John W.	Braceville
Donley, James	Cartersville	Green, Arthur	"
Daezer, Anton	Glen Carbon		
Dale, Henry	Murphysboro	Hall, Matthew	Braceville
Daniels, James	Belleville	Hamilton, T.	Nashville
Daniels, Samuel	"	Hanley, John H.	Petersburg
Davis, Thomas	Dunfermline	Hardin, William	Lebanon
Dawson, James	Sparta	Harkin, William	Coal City
Dawson, Richard	Athens	Harris, James T.	Seatonville
Diamond, Peter	DuQuoin	Hays, Henry	Streator
Dick, Robert	Belleville	Hebenstreit, B.	Staunton
Dickenson, J. E.	Westville	Hebenstreit, J. P.	"
Dickerson, J. L.	Pana	Henderson, J.	Coal City
Dixon, John L.	St. David	Henderson, Thomas	DuQuoin
Dodge, H. N.	Peoria	Henley, Richard	Niantic
Donaldson, J. W.	Westville	Henry, John T.	Pontiac
Doughty, James	Briar Bluff	Hetherington, B. M.	LaSalle
Dowling, T.	Pana	Hill, Marshall	Cartersville
Dudley, John	Galva	Howell, Thomas H.	DuQuoin
Duncan, Charles	Odin	Hudson, Thomas	Etherly
Dunlap, John	Virginia	Hughes, H. J.	Litchfield
Dougherty, Dan	Knox	Humphreys, E.	Murphysboro
Donaldson, Wm.	DuQuoin	Haddock, John, Jr.	Sherrard
Durkin, Mike	Percy	Hanson, William	Murphysboro
Deans, Henry	Kimmunity	Harding, Thomas F.	Grape Creek
Dudek, John	"	Helfrick, Henry	Rentchler
		Hoffman, John	DuQuoin
English, Thomas	Streator	Holmes, Thomas F.	Lincoln
Evans, George	Lincoln	Houston, Robert	Sparta
Evans, John O. Jr.	Caseyville	Howell, D. J.	DuQuoin
Edwards, Thomas	Coalville	Hoye, James	Seatonville
Ehrnet, Frank A.	Weesley	Heppard, George	Tilden
Eller, William	Edwardsville	Hoya, Wm.	Braidwood
Emery, Charles	Danville	Hughes, John	Virden
Emery, Joseph	Belleville	Harrison, John	"
English, Ralph	Virden	Haddow, Thos.	Pana
Evans, William	St. David	Hickey, John	Springfield
		Harding, Enos	Birkner
Fagan, Michael	Spring Valley	Harding, Joe H.	Troy
Foley, W. E.	Mapleton	Hale, Geo.	Ladd
Fagan, Patrick	Decatur	Hughes, James	Braidwood
Fairlie, James	Cambridge	Hummert, Henry	Breese
Falsetti, John B.	Fairmount		
Fellows, Edward	Streator	Iberson, James	Athens
Fleming, Jacob	Kewanee	Iseinghaus, Wm.	Lebanon
Fletcher, John J.	Collinsville	Izatt, William	Litchfield
Fletcher, William	"		
Ferguson, John	Chenoa	Jacobson, C. P.	St. David
Freer, James	Peoria	James, John	Mt. Olive
Foraythe, Robt.	Murphysboro	Jaques, William	Belleville
Fletcher, Thos. C.	Collinsville	Jeffery, Peter	Cartersville
Fletcher, John	LaSalle	Jenkins, Alexander	Dunfermline
Francis, T. L.	Braidwood	John, Evan	Barclay
Ferguson, Walter	"	Jones, Charles	Marion
Finrock, M. M.	Pana	Jones, David	"
Gaffgan, M.	Petersburg	Jones, Edward	Oglebay

Certificates of Competency.—Continued.

Names.	Postoffice.	Names.	Postoffice.
Jones, Logan	Marissa	Medill, Duncan	Oglesby
Jones, Wm. E.	Sheffield	Middleton, J. L.	Sandoval
Jones, Wm. E.	Wesley City	Miller, Hugh	Coal City
Jordon, Robert	Streator	Mallory, Henry E.	Danville
Jerremire, Wm. M.	DuQuoin	Montoy, Andy	Peoria
Jones, T. L.	Lad.	Morton, Robert	Virginia
Jolley, Thos.	Collinsville	Murray, David	Sparta
Jones, Wm. M.	Tamaroa	Murray, Hugh	Danville
Kelley, Robert D.	Carbon Hill	McAllister, Hector	Greenview
Kidd, Alexander	Oglesby	McCleary, John	Kangley
Kidd, Andrew	Wenona	McCleary, James	Springfield
Klingenfus, Otto	Mascoutah	McGinnis, John	Marissa
Kane, Charles H.	Dunfermline	McGonnigall, J.	Spring Valley
Karrall, Edgar	Westville	McManahan, P. F.	Farmington
Keating, James A.	Streator	McMorrow, Michael	Streator
Keay, John	Springfield	Morgan, Joseph	Carbon Hill
Kelley, Frank S.	Centrals	Monaghan, Edward	Percy
Keefe, Wm.	Danville	Moffatt, R. E.	Carbon Hill
Kerr, John	Rushville	McKillop, Donald	Lebanon
Klenbueh, D.	Edward's Station	Morris, G. W.	Nashville
Kirby, James	Tallula	Morris, James H.	Pana
Kirchner, Frank	Belleville	Mitchell, Thomas J.	Coal City
Kloever, Joseph	Coffeen	McKean, Isaac	Springfield
Kortkamp, Wm.	Hillsboro	Murphy, Patrick	Streator
Kiel, Peter	DuBois	McDonald, Robt.	Murphysboro
Kelley, D. J.	Carbon Hill	McGonagill, John	Spring Valley
		McGunnigal, Bernard	
Large, James M.	Athens	Neal, Albert M.	Murphysboro
Lawson, John	Mt. Olive	Neal, William	Kingston Mines
Lee, Robert	Cable	Newsom, Thomas	Springfield
Lewis, James	Bryant	Newman, E. F.	Kingston
Lewis, William	Streator	Newsam, John	Orchard Mines
Lindley, Richard	Ridge Prairie	Newsam, Richard	Freeburg
Lindsay, John O.	DuQuoin	Noid, Fred	Glenburn
Lister, James H.	Peters Station	Needles, Thad.	Birkner
Little, Thomas	Murphysboro	Nevenen, John	
Lloyd, David J.	Pawnee		
Logan, Thomas J.	Streator	Opie, William	Sandoval
Lord, John S.	Springfield	O'Brien, John W.	Toluca
Laws, J. M.	Cuba	O'Brien, Patrick J.	Springfield
Lloyd, Thomas	Rentchler	O'Brine, William	Pana
Love, John W.	Carbon Hill		
Lowery, Frank	Orchard Mines	Patterson, J. C.	Assumption
Lunaghi, Joseph	Collinsville	Peter, J. D.	Murphysboro
Lettau, Wm.	Carbon Hill	Pickett, Robert	Canton
Leming, W. C.	Sato	Picton, Joseph	Farmington
Lettau, Abealom	Carbon Hill	Pother, George	Mapleton
Linsky, P. J.	Braidwood	Powell, Samuel	Pontiac
Lee, Shelcross G.	Canton	Purcell, Thomas	Norris
Laesser, Adolph	Belleville	Pierce, William	Edinburg
		Postle, John	Gardner
Matthews, W. S.	Kinmundy	Powell, Albert E.	Belleville
Martin, George	Farmington	Prince, Thomas	Gillespie
McDonald, William	Braidwood	Pullen, Charles	Sorento
McKernan, James	Collinsville	Pettier, Moses	Spring Valley
McMath, George	Cartersville	Pugh, Daniel	St. Johns
Meehan, Patrick	Breda	Peart, John	Braidwood
Meehan, Peter	Williamsville	Powell, Thos. H.	Belleville
Meiburn, Thomas	Loceville		
Millard, John	Peoria	Rae, Robert	Braidwood
Mills, T. J.	Cable	Ramsay, C. J.	Mt. Olive
Morgan, George	Springfield	Ramsay, Richard	Braceville
Morland, John, Jr.	Minonk	Ranth, John	Belleville
Morris, P. W.	Reno	Reid, Andrew	Springfield
Morris, Wm. M.	Belleville	Reilly, Edward	Danville
Malcolm, W. J.	Braceville	Reynolds, William	East Peoria
Maitby, William	Braidwood	Richardson, J. Sr.	Litchfield
Mason, Eli	Springfield	Ritchie, Alexander, Sr.	Trenton
Murphy, Jerry	Chatham	Roddenburg, C.	Belleville
Murphy, John	Braidwood	Rodden, John	Marshall
Masse, John G.	Marissa	Roe, Samuel	Oglesby
Masse, Angus	Girard	Rollo, George	Pana
Mc, John P.	Catlin	Rollo, John	Murphysboro
Mc, Duncan	LaSalle		

Certificates of Competency.—Concluded.

Names	Postoffice.	Names.	Postoffice.
Rollo, William	Pana	Taylor, Daniel	Edwards
Ronold, Alexander	Streator	Taylor, James	"
Hookin, Thomas	Galesburg	Taylor, Joseph	Springfield
Ross, David	Oglesby	Thomas, Reese	Spaulding
Rutledge, Walton	Alton	Thomas, Richard	Ridge Prairie
Ryan, James	Springfield	Thompson, R. C.	Murphysboro
Ryan, Thomas	North Springfield ..	Thornton, James	DuQuoin
Radford, Wm	Cuba	Tregoning, Walter	Murphysboro
Rasmussen, James E ..	C'Fallon	Taylor, Charles	Edwards
Reagan, Daniel	Muddy Valley	Taylor, Henry	Belleville
Ridgely, O. L.	Mt. Olive	Thom, James	Salem
Ritchie, A. J.	Trenton	Thomas, T. J.	Collinsville
Rhodes, Jefferson	Pana	Thorand, Joe	Trenton
Robinson, Henry	Gardner		
Roe, Samuel	Oglesby	Vallow, Chas	Kinmundy
Rogers, Josiah	Braidwood	Vose, John	Springfield
Rosebottom, John T. ..	Kingston		
Roberts, Ben D	Streator		
Rundie, John C	Colchester		
Reed, Wm	Girard		
Rutledge, J. J.	Staunton		
Roe, Thomas	Oglesby		
Skinner, David	Diamond	Waleh, Patrick	Springfield
Skinner, John	"	Walters, William H.	Staunton
Smith, David P	Dawson	Watts, William	Elmwood
Smith, Joseph	Maurice	Weeks, Thomas	Streator
Smith, T. J.	Pana	Weisenborn, F. K.	Gillespie
Smith, William	Athens	Westwater, David	Westville
Strable, George	Auburn	Westwood, Albert	Belleville
Sangrelet, Marshall ..	Glen Carbon	Wagner, I	Mapleton
Sauer, Frederick	Belleville	Walters, Thomas W.	Ladd
Saife, William	Virginia	Westwood, Thomas	Belleville
Schram, Richard	Belleville	Wild, James	Murphysboro
Scurrah, C. R.	Braceville	Wild, James	Troy
Secor, Frederick D.	Odin	Wiley, R	St. David
Shields, Frank D	Pana	Wilkinson, T. H	Diamond
Simkin, Samuel	Coalville	Williams, James	Murphysboro
Simmons, Thos	Canton	Williams, Louis	Belleville
Simpson, George A	Glen Carbon	Williams, Robert H.	Edinburg
Simpson, George C	Springfield	Wilson, Hugh	Kinmundy
Skinner, Alexander	Diamond	Wilson, W. A	Reed City
Sloan, Edward C	Wesley City	Westwood, John	Streator
Small, James	Middle Grove	Wheatcraft, James	Elmwood
Smith, Felix	Breese	Whennan, Charles	Oglesby
Smith, George A	Sandoval	Willett, Thomas	Collinsville
Smith, James L	Riverton	Williams, John	Riverton
Smith, William G	"	Williams, W. W	Hornsby
Snedon, Richard	Viridin	Williamson, William	Staunton
Sollenberger, H. C.	Canton	Wilms, William	Springfield
Sterratt, James	Peoria	Wilson, David	Murphysboro
Stockett, Howard N	Springfield	Wilson, Hiram	Carbondale
Stockett, Lewis	Collinsville	Wilson, H. C	Pekin
Stockett, Thomas R. Jr.	"	Wilson, J. G	Roanoke
Stockman, W. H	DuQuoin	Wilson, John J	Wesley City
Storrie, Archibald	Marquette	Wilson, Thomas	Astoria
Swanburg, J. L	Danville	Winning, Robert	Cartersville
Sidell, James	Streator	Winterbottom, J	Nashville
Simpson, Dave	Spring Valley	Whittaker, W. J	Collinsville
Skinner, John	Astoria	Wanting, T. J	Pottstown
Strable, August	Belleville	Williams, Jeff	Wanlock
Siek, A. J.	Equality	Wright, John	Belleville
Stewart, D. G	Seatonville	Wainess, Wm	Riverton
Swarthout, J. P	Peoria	Wanless, Isaac	"
Shuler, Chas	Gilchrist		
Sidall, John S	Pana		
		Young, Hiram	Girard
		Zoller, Robert H	Braidwood

MINE MANAGERS TO WHOM CERTIFICATES HAVE BEEN ISSUED SINCE LAST REPORT.

Name.	Postoffice.	Names.	Postoffice.
Anderson, W. C.	Blmwood	Herriot, James	Spring Valley
Atkinson, Edward	Streator	Hagertown, Joseph	St. John
Ainsworth, Thomas	Taylorville	Harrison, John	Odin
Andreas, Aug.	Belleville	Harrison, Ernest	Streator
Adams, Chas. T.	Roseboro	Hainsell, David	Lenzburg
Ainsworth, Samuel	Taylorville	Henry, Philip	Kewanee
Adams, J. M.	Wanlock	Hartman, Frank	Murphysboro
		Humme, J. A.	Hillery
		Hillery, Edward	Colchester
		Henry, Frederick	Kewanee
		Hauck, Fred	Glen Carbon
Bevard, John J.	Kinmundy		
Bengaton, John Alfred	Galva	Jones, John H.	DuQuoin
Bashong, Andrew M.	Danville	Jones, William	Marissa
Beatty, James	Mascoutah	Jefford, Thomas Henry	Kingston
Bauer, Valentine	Clyde	Jones, D. L.	Taylorville
Bingham, Robert	O'Fallon	James, Jonah	Grape Creek
Bates, W. H.	Winchester		
Bowers, Robert	Wenona	Kable, Joseph	Coulterville
Beggs, Samuel	Clarke City	Knies, Henry	Breese
Baumer, Fred	Marquette	Kempper, Henry	Gillespie
Bundy, John	Streator	Kell, Matthew	Du Bois
Brown, F. M.	Farmington	Kelley, Bernard	Litchfield
Brooks, Peter	Taylorville	Krautz, Jacob	Belleville
Burke, George	Peru	Kramer, Anthony F.	Sato
Bulmer, John	St. John	Keay, A. H. S.	Seatonville
Barron, James	Cantrall	Kelly, Joe George	Braidwood
		Kidd, W.	Ridge Prairie
Clifford, Michael J.	Kewanee		
Coston, George	Grape Creek	Lumaghi, Louis F.	Collinsville
Colliers, Frank Joseph	Bartonville	Lander, Alex.	Cartersville
Crampton, Ed.	Murphysboro	Lloyd, John E.	Danville
Cameron, David J.	Pana	Long, Thomas	Wanlock
Campbell, William	Sandoval		
Carson, J. H.	O'Fallon	Marland, John, Sr.	Wenona
Chalderton, John	Lenz Station	Milem, John	Norris
Cowell, William	Assumption	Miller, Wm.	Lenzburg
Cryer, James T.	Spring Valley	Murray, J. H.	Galva
Cherry, James	Seatonville	Macke, P. H.	Ledford
Crankshaw, William	Decatur	Lewis, Michael	Belleville
		Moffatt, Thomas	Percy
Denny, John J.	Springfield	Mason, Mark	Sato
Dowell, Thos.	Muddy Valley	Motin, Jeremiah	Danville
Davis, P. J.	Percy	Motin, D. A.	
Davis, William	Litchfield	McGeachin, Robert	Sorento
Duffner, J. W.	Belleville	McLean, Robert	Girard
Dale, John	Fredonia	McFarland, Wm. A.	Edwardsville
Devlin, Thos. H.	Spring Valley	McFadden, Joe	Danville
		McKeown, Frank	Decatur
Evans, Albert E.	Streator	McClintock, John	Murphysboro
Evans, John Nine	LaSalle	McMurtie, A. B.	Bryden
Edwards, S. E.	Centralia		
		Nael, Reese	Kangley
Felker, John	Danville	Nicholson, George A.	Cuba
Farrard, William	Springfield	Nicholson, William	
Fritz, William	Breese	Neil, Peter	Bunker Hill
Fohl, Bernard	Belleville	Nesbet, Chas.	Millstadt
Forsythe, Peter	Centralia	Nordeen, Peter	Galva
Franken, Bernard	Lincoln		
Foley, George	LaSalle	O'Brien, John J.	Marquette
Foster, William			
Fleming, James	Decatur	Powell, Evan	Murphysboro
		Powell, David	Braceville
Graham, Louis A.	Springfield	Patchet, John	Murphysboro
Gibson, M.	Spring Valley	Pool, Edgar E.	
Godler, William	Cuba	Pryce, John M.	Coal Valley
Gratz, Gottlieb	Hornsby		
Goalby, William H.	Percy	Redyard, John	Odin
Gelbert, Edward	Niantic		
Greenwood, Robert	DuQuoin		
Goddard, Ben B.			
Goddard, Wm.			
Graham, Hiram	Viriden		

Certificates Issued Since Last Report.—Concluded.

Names.	Postoffice.	Names.	Postoffice.
Raby, Robert A.	Cuba.....	Sevan, Chas.	Danville.....
Radford, Thomas.	Bloomington.....	Smethurst, Nathan.	Spring Valley.....
Roberts, John D.	Streator.....	Steel, Alexander.	Streator.....
Reid, Joseph.	Marion.....	Smith, Alexander M.	Sandoval.....
Reilly, Edward.	Danville.....	Smith, W. J.	Girard.....
Randle, Jesse.	Birkner.....		
Reese, Daniel.	Danville.....	Tallman, John.	Kangley.....
Reimann, John.	Belleville.....	Taylor, Thomas.	Spring Valley.....
Rennison, Henry.	St. John.....	Thompson, John.	DeSoto.....
		Thomas, J. R.	Ladd.....
		Thom, Alex.	Coal City.....
		Twomley, Edwin.	Coal Valley.....
Sutton, Thomas.	Millstadt.....		
Sharp, Montgomery.	Coal City.....	Vicary, John.	Lincoln.....
Saneons, Stevens Henry.	Streator.....		
Springer, Albert R.	Glen Carbon.....	Winning, James.	Cartersville.....
Steel, James.	Spring Valley.....	Williams, Walter.	DuQuoin.....
Steel, Daniel.	Collinsville.....	Wilkinson, Frank.	Westville.....
Scholl, Joseph.	Bartonville.....	Wailand, Ed. S.	Bartonville.....
Seafos, George.	St. John.....	Walschlag, Stephen.	Peoria.....
Scully, Wm. J.	Glen Carbon.....	Wilson, John B.	Sparta.....
Simpson, Isaac.			
Steel, Neal.	Centralia.....		
Simpson, Wm. J.	Collinsville.....	Young, Hugh G.	Braidwood.....
Simpson, Thomas.			
Sholeen, A. S.	Galva.....		
Staunton, Wm. E.	Colchester.....		
Strickland, John.	Coal City.....		
Smith, James L.	Mt. Olive.....		

FIRE BOSSES HOLDING CERTIFICATES OF SERVICE.

Names.	Postoffice.	Names.	Postoffice.
Bagshaw, Geo. W.	Viriden.....	Lewis, Edw.	Ladd.....
Borg, Frank.	Mt. Olive.....		
Brooke, Peter.	Taylorville.....	Montgomery, John H.	Gardner.....
Blakemore, Geo.	Streator.....	Moffett, Edw. A.	Bartonville.....
Boulton, Henry.	Coal City.....	Mooney, Arthur.	Kangley.....
Brown, John.	Streator.....	McDonald, M. E.	La Salle.....
Bough, Wm.	Dawson.....		
		Rosa, S. H.	Girard.....
Caveny, Edw.	Pana.....		
		Siebenhauser, Wm.	La Salle.....
Franzen, Mat.	Girard.....	Schmidt, Ernest.	Mt. Olive.....
		Shopman, John.	".....
Griffin, John.	Niantic.....	Shaw, Francis M.	Hallidayboro.....
Gray, Wm.	Streator.....	Stewart, Samuel.	Coal City.....
		Solufski, Herman.	Decatur.....
Hughes, John.	Decatur.....		
Hoesfeld, Aaron.	Oglesby.....	Taylor, Sam.	O'Fallon.....
Humphreys, Wm.	Clarke City.....		
Hall, John Herbert.	Minonk.....	Voight, Rumbolt.	Mt. Olive.....
Hornanor, Paul.	Lincoln.....		
		Wileon Archie.	Clarke City.....
Jenkins, Rutland.	La Salle.....	Wood, Henry.	Streator.....
		Wilson, John.	Gardner.....
Kortkamp, Lewis.	Hillsboro.....		
Kortkamp, Carl.	".....		
Kneper, David.	Girard.....		
Koppe, August.	".....		

FIRE BOSSES HOLDING CERTIFICATES OF COMPETENCY.

Names.	Postoffice.	Names.	Postoffice.
Argyle, Joseph.....	Coal City.....	Wassie, J. G.....	Belleville.....
Cappin, Aaron.....	Wenona.....	Maggo, Jacob.....	Danville.....
Castillo, Henry.....	Pana.....	McCrindle, David.....	Oglesby.....
Chadderton, John.....	Lenz Station.....	McEwen, Chas.....	Carbon Hill.....
Campbell, James.....	Assumption.....	McKellop, Donald.....	".....
		McCranor, James.....	Girard.....
Davis, Wm.....	Streator.....	Nichols, Eli W.....	Dunfermine.....
		Nixon, Robt.....	Streator.....
Gloss, Mike.....	Gardner.....	Opp, Sherman W.....	Sandoval.....
Goehe, Wm.....	Staunton.....	Pick, Edward.....	Central City.....
Galbraith, Patrick.....	Coal City.....	Quinn, Bernard.....	Bloomington.....
Grabsuck, Emil.....	Staunton.....	Ritson, Hugh.....	Farmington.....
Hardman, J. J.....	Auburn.....	Reinnison, Henry.....	St. Johns.....
Hopkins, Reese.....	Litchfield.....	Schmid, Conrad.....	Lincoln.....
Harrison, John.....	Odin.....	Smith, James.....	Streator.....
Holden, Andy.....	Coal City.....	Stonburner, L. L.....	Sorento.....
Harrison, James.....	Athens.....	Steel, Neal.....	Centralia.....
James, Johann.....	Grape Creek.....	Stearns, James.....	Hallidayboro.....
Jennings, Wm.....	Athens.....	Steel, Dan.....	Collinsville.....
Jones, Morgan.....	Litchfield.....	Thom, John.....	Coal City.....
Jones, Benj. J.....	Coffeen.....	Williams, William Edward..	Streator.....
Johnston, Samuel.....	Oglesby.....		
Kloeever, Matthew.....	Pana.....		
Lyons, Mark.....	Lincoln.....		
Muentrich, J.....	Staunton.....		

HOISTING ENGINEERS HOLDING CERTIFICATES OF COMPETENCY.

Names.	Postoffice.	Names.	Postoffice.
Alwater, Stephen.....	Clarke City.....	Burlinson, Aaron.....	Percy.....
Ahlen, Henry.....	Breese.....	Barr, Frank.....	Centralia.....
Ashman, Joseph.....	Murphysboro.....	Beatty, Nepha.....	Mascoutah.....
Atkin, Robert R.....	Tilden.....	Byrne, Michael.....	LaSalle.....
Anderson, Z. B.....	Sparta.....	Barton, Chas. W.....	Fairmont.....
Avery, Wm.....	Lenz Station.....	Barber, C. E.....	DuQuoin.....
Alexander, W. A.....	Roseboro.....	Barber, C. W.....	".....
Anderson, Henry.....	Lincoln.....	Blake, Albert.....	Streator.....
Appleton, Thomas.....	Virde.....	Burrell, G. K.....	Farmington.....
Archibald, David.....	Springfield.....	Barton, C. W.....	Cable.....
Adams, Nelson.....	Lincoln.....		
Allen, C. E.....	Troy.....	Cantrell, H. T.....	Farmington.....
Bromley, Geo. W.....	Kelleyville.....	Clifford, Michael.....	Kewanee.....
Bromley, George, Sr.....	Catlin.....	Clark, Quintin.....	Braidwood.....
Beard, Chas. A.....	Streator.....	Cummings, Geo. P.....	Spartan.....
Buckley, Calvin W.....	Spartan.....	Conway, John.....	Collinsville.....
Brown, Thos.....	Moweaqua.....	Clark, John.....	Virde.....
Barnhill, H. G.....	Kimundy.....	Carmichael, Thos.....	Springfield.....
Beatty, James H.....	Coffeen.....	Carr, Robt. H.....	Freeburg.....
Broughton, Geo. C.....	Mascoutah.....	Cummings, George.....	Pana.....
Burr, Chauncey.....	Litchfield.....	Campbell, Fred.....	Sorento.....
Brandenburg, F.....	Collinsville.....	Collington, Chas.....	Belleville.....
Bromley, Chas.....	Belleville.....	Connelly, J. J.....	Murphysboro.....
Boston, Wm. H.....	Coal City.....	Camp, J. R.....	Westville.....
Butcher, Thos.....	Murphysboro.....	Campbell, W. J.....	Coal City.....
		Chew, B. R.....	Carlinville.....
		Christ, Philip.....	Wenona.....

Certificates of Competency.—Continued.

Names.	Postoffice.	Names.	Postoffice.
Cummings, Geo. A. P.	Gardner	Gould, Geo.	Sato
Cain, John	Ridgely	Girfen, Henry	Troy
Cornelius, Richard	Fairmount	Golby, Frank H.	Stookey
Conway, Michael	Ladd	Groom, John, Sr.	Belleville
Cain, Daniel	Ridgely	Groom, Wm.	"
Clark, John	Marquette	Golby, Arthur A.	Percy
Coatsney, Grant	Fairmount	Grievy, James	Birkner
Conley, John	Streator	Grace, John T.	Kewanee
Clicken, C. S.	Witt.	Groom, James	Belleville
Crocker, Edward	Marquette	Green, Thos.	Marissa
Collingwood, Wm.	Greenview	Gallagher, Peter	Clarke City
Cotton, George	Hallidayboro	Gaughan, James	Braidwood
Cameron, Daniel	Pana	Gates, Wm. S.	Kankakee
Carrington, Eugene	Moweaqua	Greenhalgh, Wm.	Hillsboro
Clifton, Wm. H.	Spartan	Greenhalgh, James	"
Cummings, Robert W.	Sparta.	Gately, James	Seatonville
Carpenter, Charles	Girard.	Gibson, John	Sandoval
		Greaves, Walter	Ladd
		Grubb, Michael	Riverton
Dowler, John	Auburn		
Duncan, J. R.	LaSalle	Hayes, James	Bloomington
Davis, E. E.	Auburn	Handle, Ledlie	Taylorville
Dick, Robt.	Sunfield	Hillard, James	St. David
Daniels, Joel	Belleville	Hand, P. L.	Peoria
Dea, Henry	Glen Carbon	Hall, G. R.	Colchester
Dougherty, Joseph	Taylorville	Hanvey, John J.	Collinsville
DeBacher, Thomas	Elmwood	Haensel, David	Lenzburg
Danah, John W.	Springfield	Hale, Wm. T.	Troy
Dent, Wm.	Diamond	Hanvey, Robt.	Collinsville
Deaton, L. B.	Tallula	Hampton, N. R.	Murphysboro
Dowling, Ira F.	Springfield	Hanvey, Wm.	Collinsville
Davis, L. D.	Coffeen	Hill, C. C.	Marissa
Dankins, Thos. J.	Braceville	Herring, Geo. P.	Odin
Delmore, Frank	Springfield	Head, John S.	Assumption
Daniel, James	Belleville	Hoecker, Chas.	Glen Carbon
Dyer, Harry	DuQuoin	Hord, Alvin	Taylorville
Dodwell, Edward J.	Decatur	Hopper, Frank	Edwardsville
Davis, Frank	Lincoln	Hopper, Geo.	Glen Carbon
Davis, James P.	Belleville	Hartman, Frank	Murphysboro
Delorey, Wm.	Westville	Hagler, Chas.	Fredonia
		Hamilton, Jas. H.	Spartan
Elliott, Clarence	Bryant	Hopper, H. H.	Gillespie
Erisman, Jesse	Niantic	Hennegan, John F.	Wanlock
Elmore, V. M.	Coffeen	Hill, C. W.	Pontiac
Erisman, Jacob D.	Niantic	Hawker, J. O.	Pana
Eaethan, G. A.	Girard	Hardy, Thos. W.	Dawson
Evans, C. L.	Virden	Hughes, John C.	Springfield
Emery, H. W.	Greenville	Haensel, Edward	Lenzburg
Ellis, Albert	Cable	Henry, Philip	Kewanee
Elliott, H. H.	Centralia		
Eddy, Evermont	Athens		
Evans, W. E.	Danville	Irwin, Byron	Pana
		Irwin, John	Gillespie
Fry, D. W.	Clarke City		
Fahay, John	Decatur	Jacobs, W., Sr.	Peoria
Frier, Jacob	Ormsby	Jones, Logan	Marissa
Fritz, Gustav	Breece	Jones, Jonathan, Jr.	"
Friend, J. W.	Collinsville	Jones, Jonathan, Sr.	"
Forister, Wm.	Murphysboro	Jones, George	Freeburg
Fuster, D. H.	"	Jones, William	Marissa
Fleisher, A.	Taylorville	Jones, John P.	Staunton
Fillingham, J. A.	Canton	Jeffrey, James	Marissa
Frankland, Tim	Streator	Jones, Henry E.	Belleville
Fox, James B.	LaSalle	Johnson, John W.	Bloomington
Farley, James	Riverton	Johnston, Jos. R.	Spring Valley
Fischer, Philip	Lenzburg	Johnson, Robert	DuQuoin
		Jenkins, John L.	Streator
Griffin, John O.	Kewanee	Jacobs, James M.	Moweaqua
Green, Daniel	Braidwood	Jenks, Wm.	Athens
Gordon, E. J.	Petersburg	Johnston, Thomas	Pontiac
Graham, L. A.	Springfield		
Gillson, R. W.	Danville	Kilbride, T. C.	Farmin
Golby, B. F.	Percy	Kidd, Alonzo	Farmin
Gladders, Wm.	Coal City	Killinger, C.	Coal

Certificates of Competency.—Continued.

Names.	Postoffice.	Names.	Postoffice.
Kinghom, John	Staunton	Outhouse, John	Johnson City
Killinger, John	Collinsville	Olinger, J	Odin
Kirshmer, Frank	Belleville		
King, Alex, Sr.	Cartersville		
Kelley, Robt. D.	Carbon Hill	Pearce, H. L.	Cable
Keating, Richard	Streator	Petrea, J. W.	Centralia
Keating, Edward F.	"	Pircher, Peter P.	Sandoval
King, L. B.	Smithboro.	Pugh, Dan	St. John
Kimber, John	Ladd	Pulver, R. H.	Centralia
Kelley, James D.	Carbon Hill	Pointer, Ed. H.	Belleville
		Powell, Edwin	Caseyville
		Parks, James	Streator
Lindekey, Martin H.	Streator	Peecher, David	Braidwood
Lockie, Wm.	Cartersville	Price, Thos.	Spalding
Lundley, Ralph	Rich Prairie	Powell, F. C.	Seatonville
Little, Thos.	Murphysboro	Paden, J. W.	Spring Valley
Layne, J. W.	De Soto	Paddock, W. D.	Pana
Lucht, M. F.	Mt. Olive	Philip, J. M.	Athens
Lemons, J. L.	Girard	Piper, James	Worden
Lambert, Geo. W.	LaSalle	Patterson, R. J.	Murphysboro
Lindstrom, Oscar	Sherrard		
Leslie, N. B.	Braidwood		
Lehman, Philip	Lebanon	Quick, A. F.	Sato
		Quick, A. S. H.	"
		Quigley, Henry	Halldayboro
Murphy, Robt. T.	Norris		
Murrie, Archie.	Trenton	Raber, F. C.	Troy
Mader, Chas. H.	Staunton	Reagan, Wm.	Mt. Olive
Miller, Wm. C.	Rentchler	Rice, C. L.	Harrisburg
Meadows, Wm.	Ledford	Reilly, Henry	Toluca
Mulvany, A. T.	Glenburn	Rhodes, Almon R.	Chenoa
Masile, J. T.	Belleville	Robinson, Wm. A.	Toluca
Manley, Leo	Coffeen	Radford, Wm. T.	Bloomington
Morris, George	Belleville	Kenni, Andrew	Dunfermline
Marshall, Robt.	Murphysboro	Reatz, Hans	Lincoln
Morck, John.	Belleville	Rockey, Chas.	Peoria
Morgan, John C.	Springfield	Robinson, Chas.	Wenona
Monaghan, James	Gillespie	Reetz, Herman	Lincoln
Miller, James	Alma	Rippitoe, J. G.	Colchester
Mills, Thos. S.	Coal City	Rennie, James	Dunfermline
Marland, James	Wenona	Randle, Caleb	Belleville
Mainwaring, James	Braceville	Roberts, John	Litchfield
Morgan, Wm.	Carbon Hill	Randle, Wm.	Freeburg
Myers, Henry	Minonk	Richmond, John E.	Coal City
Mayor, J. W.	DuQuoin	Roy, A. L.	Collinsville
Marland, Wm.	Spartand	Richards, John T.	Staunton
Murray, Jos. P.	Roseboro.	Rice, Moses	Murphysboro
Miller, A. J. F.	Centralia	Russell, Zenas	Pana
Morris, Wm.	Mt. Olive	Reed, W. J.	Danville
Michaels, Otto	Belleville	Rutliff, Isaac	Ashland
McCormack, James J.	Springfield	Robinson, J. A.	Riverton
McKean, Isaac	Coal City	Razor, J. D.	Staunton
McVicar, Donald	LaSalle	Reid, Archibald	Springfield
McKearnan, J. B.	Athens	Reimann, John	Belleville
McCauley, Aaron	Streator		
McGittigan, Thos.	Pana		
McDonald, Wm. J.	Percy	Stewart, James C.	Carbon Hill
McDonald, John.	Springfield	Scott, J. W.	Colchester
McFarland, F. E.	Murphysboro	Stedman, Edgar	Missionfield
McCulley, G. L.	Pawnee	Schaffer, Fred	Belleville
McKean, John.	Carbon Hill	Steel, E. H.	Salem
McLaughlan, F. T.	"	Siddall, John	Belleville
McVey, Frank	Roanoke	Siddall, Levi	"
McLaughlan, Geo.	Carbon Hill	Sparks, J. L.	Mt. Vernon
		Sneddon, Richard	Catlin
Newal, Leroy	Spartand	Sneddon, John	O'Fallon
Norboy, Peter	Galva	Schroeder, Henry	Mt. Olive
Nelson, Andrew V.	Centralia	Smith, Ed. J.	Collinsville
Nevener, James	Belleville	Saylor, C. F.	Murphysboro
Needham, Daniel	Breese	Scharinck, Frank	Edwardsville
		Schuessel, Conrad	Breese
		Schulte, Fritz	Clinton
O'Brien, Terry	Decatur	Seller, Wm.	Ormsby
Osburn, Glen L.	Streator	Schroeder, Chas.	Mt. Olive
O'Donnell, Michael	Decatur	Stewart, Peter	Murphysboro
Otto, John	Collinsville	Secar, F. D.	Odin
Ord, S. R.	Mt. Vernon	Stedman, Robt.	Danville

Certificates of Competency.—Concluded.

Names.	Postoffice.	Names.	Postoffice.
Stout, W. E.	Rutland	Williamson, William	Coal City
Sawers, Joseph	Coal City	Williamson, Henry	"
Stowell, G. W.	Bloomington	Watts, T. J.	Elmwood
Savage, Richard	Clarke City	Walton, Joseph	St. David
Steven, C. H.	Spring Valley	Wallock, Chas.	Braceville
Strout, J. W.	Pontiac	Wilson, David	Birkner
Sparling, Henry	Seatonville	Westwood, Albert	Belleville
Stout, F. M.	Springfield	Wilson, Wm. H.	Middle Grove
Schmacher, Herman	Glen Carbon	Wohlers, Henry	Mt. Olive
Slocum, Clarence	Gilchrist	Wilkin, W. P.	Springfield
Swartz, Fred	Toluca	West, W. H.	Murphysboro
Sparling, Chas.	Seatonville	Wandless, W. S.	Collinsville
Stanford, J. W.	Pana	Wattawa, Joseph	Belleville
Seeman, John C.	Cantrall	Waldron, Thos.	Fredonia
		Woodward, J. R.	Streator
		Wright, Wm. M.	Pana
Thexton, Henry	Rushville	White, Robert	Lincoln
Thomas, Fred	Rutland	Walker, John H.	Mt. Olive
Temple, James C.	Springfield		
Taylor, Mack	Westville	Young, Robert	LaSalle
Tibballe, E. A.	Marion	Yates, John	De Soto
Taylor, Edwin	Trenton	Young, Jas. L.	Gardner
Travis, Alonzo	Pana	Yehling, Fred H.	DuQuoin
Travis, Wm.	Lenz Station	Yates, Wm.	Coal City
Twombly, Edward	Coal Valley	Young, J. K.	Girard
Vandveer, Perry E.	Taylorville	Zuricker, Lorenz	Cable
Vernon, James	LaSalle	Zink, Louis	Belleville
Wassel, Anton	Braceville		

HOISTING ENGINEERS HOLDING CERTIFICATES OF SERVICE.

Names.	Postoffice.	Names.	Postoffice.
Anthony, John C.	Belleville	Doe, R. P.	Glen Carbon
Ackerman, Jacob	"	Daley, Thos.	Diamond
		Dauck, John	LaSalle
		Davis, Thomas	Swanwick
Bine, Jesse	Norris		
Bevennto, Chas.	Toluca	Everett, Chas.	Rutland
Beeby, Wm.	Springfield	Edwards, Geo. W.	Springfield
Brown, G. A.	Iles Junction	Essex, Geo. M.	Soperville
Brubeck, J. W.	Pawnee	Evans, Albert	Glen Carbon
		Eksis, Daniel B.	Springfield
Cook, W. D.	Westville		
Craig, Daniel	Danville	Fischer, Geo.	Staunton
Crinigan, Barney	LaSalle	Fisher, Patrick	Kangley
Crunkshank, W. A.	Middle Grove		
Carlson, Alex	Galva	Grattendick, Fred	Okawville
Cotton, Geo.	Hallidayboro	Grey, David F.	Springfield
Crocker, Ed.	Marquette	Glenam, Philip	Williamsville
Collins, John	Birkner	Graham, J. A.	Nilwood
Carrington, Eugene	Moweaqua	Gaudy, James W.	Peoria
Crawson, Wm.	O'Fallon	Glasford, Oliver	Orchard Mines
Carter, Albert J.	Pinckneyville	Groom, John	Belleville
Cox, John	Leoford	Greaves, Allen	Nashville
Clark, Chas. M.	DuQuoin	Grimshaw, Joseph	LaSalle
Campbell, James	Coal City	Grierson, John	Streator
Cline, John	LaSalle		
Chitwood, Wm.	Glenburn	Hayes, John	Riverton
		Harms, Helke	Petersburg
Dawson, V. C.	Spring Valley	Hickox, Lee	Springfield
Dietrich, Philip	Freeburg	Hagler, Chas.	Fredonia
Dawson, John	Streator	Haas, Jacob	Millstadt
Davis, Geo. W.	Hanna City	Heaver, R.	Sandwich
De Bacher, Thomas	Elmwood	Harris, J. T.	"
Davenport, Thos.	New Castle	Hansom, Wm.	"
Dillon, John	Auburn		
Davison, J. G.	St. John		

Certificates of Service.—Concluded.

Names.	Postoffice.	Names.	Postoffice.
Iadore, Chas.	Sparta	Pankey, John M.	Equality
Iadore, George .....	.....	Peet, Chas.	Marselles
Ichman, Frank	Spring Valley	Pritchett, T. M.	Niantic
Johnson, Edgar W.	Marissa	Quick, A. T.	Sato
Jones, T. A.	Muncie	Qualls, Nevel	Dubois
Jackson, Wm.	Minonk		
Judd, Thos.	Cuba	Redyard, John.	Odin
Jacobs, John P.	Orchard Mines	Radford, W. T.	Bloomington
Jacobs, Wm.	Murphysboro	Radford, James W.	Cuba
Jamison, John	Petersburg	Rogers, Henry	Braidwood
		Rahaur, Mike	Pawnee
King, Alex, Jr.	Carterville	Reese, Wm. M.	Roanoke
Karney, E.	Hallidayboro	Rice, B. F.	Harrisburg
Kennedy, W. J.	Edwardsville	Richmond, Ed. B.	Winchester
Kelley, Martin	Toluca	Roach, Samuel	Tamaroa
Kirby, Thos. Jr.	Pern.	Rude, Edmund	De Soto
Kemper, Christian	Belleville	Rieger, John C.	Pinckneyville
Klaus, Louis.	"	Reid, A. B. Jr.	DuQuoin
Kiang, John	Galva	Raber, Louis	Caseyville
		Reum, Chas. H.	Sorento
Love, Wm.	Viriden	Rogers, Geo.	Sunfield
Lundberg, Eric	Galva	Rennard, Jas. E.	Westville
Larson, Chas. L.	"	Riley, Michael	"
Lewee, Jacob H.	Pottstown.		
Langran, James	Fairbury	Sexton, LaFayette	Dawson
Lathan, Wm. H.	Hallidayboro	Sanson, T. J.	Carterville
Lloyd, Benj.	Rentschler	Seymour, A. J.	Fredonia
		Smith, Geo. W.	Virginia
Maxwell, Fred.	Peoria	Stoker, Edward	Bartonville
Murray, Jas. H.	Galva	Sawers, Joseph	Coal City
Matthews, C.	Marion	Shurm, Fred.	Gardner
Melvin, T. M.	Tamaroa	Strick, Wm.	Belleville
Miller, Wm.	Streator	Schramm, Chas.	"
Matthews, Wm. G.	Bartonville	Sowarby, Miles	Willisville
Morrison, Archie	Oglesby	Sallada, Geo. A.	Chatham
Mattern, Daniel	Spring Valley	Stuart, John	Oglesby
Milem, John	"	Sorrels, D. H.	Ashland
Marshall, Robert	Yates City	Struck, Carl	Springfield
McWerthy, J. A.	Smithboro.	Seeback, Joseph	Spring Valley
McDonald, W. H.	Pana		
McLean, John	Pleasant Plains	Taylor, Renj.	Bartonville
McCaister, Thos.	Muddy Valley	Taylor, Willard W.	Tamaroa
McMillin, W. M.	Danville	Telfer, John K.	Morris
Nicholson, Geo. A.	Cuba	Williams, Stephen P.	Wyoming
Noid, John E.	Galva	Wonnee, Joseph	Birkner
Neill, John H.	Bunker Hill.	Wormack, Chas.	Glen Carbon
Neilson, J. W.	Sparta	Wheatley, Rolley	DuQuoin
Neal, Ambrose	Barclay	Wertwood, Edw.	Birkner
		Wille, Harry	New Castle
Olson, Aug.	Kangley	Wood, Samuel A.	Colfax
Ogden, Samuel	Mascoutah.	Warren, Andrew M.	Wenona
Osborne, Benj.	Streator	Williams, Huster	Spaulding
Ottinger, Wm.	Catlin	White, Henry	Riverton
		Williams, Watson	Barclay
Prichard, H. C.	Lewistown	Waymire, James	Assumption
Phillips, Wm.	Hallidayboro	Woolbright, D. A.	Centralia
Piper, Oliver	Worden	Wallace, H. G.	East Peoria
		Zeigler, John	Iles Junction



